

SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
			ERKLEGGHHHDVACDFSPDGALLATASVDTRVYIWDPHNGDILM EFGHLFPPTPIFAGGANDRWVRSVSFSDGLHVASLADKMWV FWRIDEDYPVQVAPLSNGLCCAFSTDGSLAAGTHDGSVYFWAT PRQVPSLQHLCRMSIRRVMTQEVQELPIPSKLLBFLSYRI
5906	146	2038	REGAGSGRMASGA\YNPYTETIEQPRQGMRFYKCEGRSAGSI PGEHSTDNNRTYPSIQIMNYGKGV\RI\TLVTK\NDPYKPHPE DLVGKDCRD\GYEAEFGQ\RRP\LFPQN\LGIRCVKKKEVKE A\IITR\IKAGINFPDVP*KQLNDIEDCDLDVRLWFRVFLPDG HGNE\TTALPPV\VSSPIYDNRAPNTAELRVCVRNKNCGSVRG DEIFLLCDKVKDDIEVRFLNDWEAKGIFSQADVHRQVAIVFK TPPYCKAITEPVTVMQLRRPSDQEVSESMDFRYLPDEKDTYGN KAKKQKTTLLFQKLCQDHVETGFRHVDQDGLLELTSGDPPTLAS QAGITVNFPERPRPGLGSGIEGGRYFKKEPMLFSDAVVREMP TGVSSQAESYPPSGPISSGLSHHASMALPSSSSWSSVAHPTPR SGMTNPLSSFSTRTLPSNSQGIPPFLRIPVGNLNASNACIYNN ADDIVCMEASSMPADLYGISDFNMLSNCSVNMMTSSDSMGRT DNPRLSMNLENPSCNSVLDPRDLRQLHQMSSSSMSAGANSNTT VFVSQSDAFEGSDFS CADNSMINESGPSNSTNPNSHVVFQDSQY SGIGSMQNEQLSDSFPYEFFQV
5907	99	1873	TYLLSSWSS**NLDTKIKSQVKV/EKGHKKISWPYPQPAKQNGK KATSKVPSAPHFVHPNDHANREAELEKKNVWRERREKQQAARQ RQRRRTIESYQDVLRRQREFEHKEEVLQELNMFQDDEATR AYYKEFRKVVESDVLVLELDARDPLGCRCPQMBEAVLRAQNG KLVLVLNKLIDLPKEVVEKWLVDYLNELPTVAFKASTQHVKNL NRCSVPVDQASESLLKSKACFGAENLMRVIGNYCRLEGEVTRH VGVVGLPNVGKSSLINSLKRSRACSVGAVPGITKFMQEVVLDK IRLLDAPGIVPGPNSVGTILENCVHVQKLADPVTPTVETILQRC NLBEISNYGVSGFQTTEHFLTAVAHRLGKKKKGLYSQEAQAK AVLADWVSGKISFYTPDPATHLPTHLSEIVKEMTEVPDIEDT EQANEDTMECLATGESDELLGDTDPLEMEIKLLHSPMTKIADAI ENKTTVYKIGDLTGCTNPNRHQMGWAKRNVDRPKSNSMVDVC SVDRSVLQRI METDPLQOQALASALKNNKKMKQKRAKIASKL SDSMMSALDLSGNADGVD
5908	247	975	HCCIKKRGEKSGSPSPASGGFQIGCQIPSPSLPSEETHPHTRA HRTTLRATLRRPSPRSSTRIRFPMLDGGGLASWK/PMRR* GWRRPAKAGASLGAATGKRCRMSKRYLQKATGKLLIIFI VTLNOKVVSSANHHKAHVKTGTCEVVALHRCNKNKIBERSQT VKCSCFPGQVAGTTAAPS CVDAIVEQKWWCHMQPCLEGECK VLEDRKGNCSGSKVKRTTRVTH
5909	1	5002	PAIPGSTIIWAPGSHSAAADGRHGSLSQSQAPGALCGARAPP SSNLRADRSMICQARAGKNLYHNRFLGLAAMAPPSENQSLLR CKEPIRYSYNPDQPHNMDLRGGPHDGVTI PRSTSDTLVTSDSR STLMGRSSYYSGHSQDLVIHWDIKREVDAGDWIGMYLIDEVLS ENFLDYKNRGVNGSHRQI IWKIDASSYFVRPETKICFYHYHGV SGALRATTPSVTVKNSAAPIPKSIGADETVQGGSRRLISFSL DFQAMGLKKGMFNPDYKISIQPGKHSIFPALPHHGQERRSK IIGNTVNPINQAEQSFVSLPTDVLIEVKDKFAKSRPIIKRFL GKLSMPVQRLLEHAIGDRVVSYTLLGRRLPTDHSVGLQFRFET TSSITHPDDEEISLSTEPESAQIQDSPMNNLMRSGSGRPRSEAPE SSESWKPEQLGEGSVPRPGNQSIELSRPAREAAVITEAGDQCM VSVGPEGAGELLAQVQKDIQAPASAELEBQDLGHEASALLLE DGEAPASTKEEPLLEBATTQSRAGREBEKEQREBGDVSTLEQ EGRQLRASVKRKSRCPLPVELETVIASACGDPETPRTHYIR IHTLLHSMPSAQGGSAAEEEDGAREESTLKDSEKDGLEVDIV AADPSALEEDREEPEGATPGTAHPHSGGHFPLSANGAAQDGT HPSTGESDSSPRQGGDHSCBCDASCCSPSCYSSSCYSTSCYS SSCYASASCYSPSCYNGNRFASHTRFSSVDSAKISESTVFSSQDD EEBENSFAFESVPDSMQSPELDPESTNGAGPWQDELAAPSCHVER SPGLESPVAGPSNRREGECPILHNSQPVSQLPSLRPEHHHYPT IDEPLPPNWEARIDSHGRVYVDHVNRTTTWQRPTAAATPDGMR RSGSIQMBQLNRRYQNIQRTIATERSEEDSGSQSCBQAPAGGG

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			GGGSDSEAESSQSSLDLRRGSLSPVNSQKITLLQLSPAVKFI TNPEFTVLHANYSAIRVFTSSTCLKHMILKVRDARNFERYQH NRDLVNFNMFADTRLELPFGWEIKTDQCKSPFVDHNSRATTF IDPRIPLQNGRLPNHLTHROHLQRLRSYSAGEASEVSRNRGASL LARPGHSLVAAIRSQHQSLEPLAYNDKIVAFIRQPNIFEMLQE RQPSIARNHTLREKIHVIRTEGNHGLEKLSCADLVILLSLPFE EIMSYVPLQAAPHPGYSFSPRCSPPSSPQNSPGLQRASARAPSP YRRDFEAKLRNFYRKLEAKGFGQGPQKIKLIIRRDHLLBGTFNQ VMAYSRKELQRNKLYTVFVGEGLDYSGPSREFFLLSQELFNP YYGLFEYSANDTYTVQISPMFAFVENHLEWFRFSGRILG\LALI HQYLLDAFFT\RPFYKALL\RLPC\D\LSLEYLDEEFHQSLQW MKDNNITDILDLTFTVNEEVFGQVTERELKSGGANTQVTEKNK EYIERMVKNRVERGVVQTRALVRGFYEVVDSRLVSVFDARELE LVITAGTAEIDLNDWRNNTEYRGYHDGHLVIRWFWAAVERFNN QRLRLQFVTGTSVPEYGFAPWPMPGLRRFLP*KKWGKITS LPFRG\HTCLOPDWDLTPVSPRTFMLEYK\LTA\VBETSTFGT
5910	1526	446	VAEFAAMEPGRTQIKLDPRTADLLEVLKTYGIPSCAFSQPPT AAQLLRALGPVELALTSILTLALGSIAIFLEDAVYLYKNTLCP IKRRTLLWKSSAPTVSVLCCFGLWIPRSLVIVEMTITSFYAVC FYLLMLVMVEGFGGKRAVLRTLRDTPMMVHTGCCCCCPCCPRL LLTRKKLQ\R*CWALNTPS*R*R*PWWACFSSTASMTQQTFL RGAQLYGSTLSSA/CSTLLALWTLGIIISQARLHLGEQNMGAKE ALEQVLLILTALQPSIFSVLANGQIACSPPYSSKTRSQVMNCH LLILBTFLMTVLTRMYRKRDIKVGRTFSPPDLNLKALRNM AWTMKGCCTH
5911	109	595	Q*PLAPCTQCKGLEMRSPKQSFIRSSHSGAGLLVKNPSTPVF CGHRRGGAFFKYKPTPVVGPQRPTGQKMRGGVSLSPRECS GTISAHCNLRPSSSNSPAPAS*LAGITGVCHHAQLIPVFLVET GFPHVGOAGLELL/NVVIHLPRPPKVLGLQA
5912	924	277	MILNKALMLGALALTVMSPCGGEDIVADHVASYGVNLYQSYGP SQQYSHFPGDERFYVDLERKETVMQLPLFRFRFRFDQFALTN IAVLKHNINIVIKRSNSTAATNEVPEVTVFSKSPVTLGQPNLTI CLVDNIFPPVNNITWLSNGHSVTEGVSETRPSSPKSDHFTLQDO VTSPPSFFB*DL*TAKVEQLGANFEPILLKHWGARIPTTL
5913	46	1198	QIRMGAGAAGRQSELEPVVSLVDVLEDELENEACAVLGG DSEKCSYSQSGSVKQALYACSTCTPEGKEPAGICLACSYBCHS HKLFLKLYTKRNFRCDCGNSKPKNLECKLLPDKAKVNSGNKYNDN PFGLYCI CKRPYPDPEDIEIDEMIQCVCEDWFGHRLGALPE SGDFQEMVQCACMKRCSFLWYAAQLAVTKIST\GMMDWCGTLM E*/DDQEVIKPENGEHODSTLKDVPQGGKDDVREVKVRQNSRP CAGSSSESDLOTVFKNESLNABSKSGCKLQELKAKQLIKKDTAT YWPLNWRSLCTCQDCMKMYGDLVLFITDEYDITVLAYENKGI AQATCRSDPLMDTLSSMNRVQQVELIC/GIQ*FED
5914	960	124	NLGGSELPPREALFTQVASMNRVDFYLASIEDMLVAI/GGRN ENGALSSVETYSPTKDSWSYVAGLPRTFYGHAGTIYKDFVYISG GHYQIGPYRKNLLCYDRTDVWEERRFMTTARGNHSMSCLGDS IYISIGSDDNIESMERFDVLGVEAYSPOCNQWTRVAPLLHANSE SGVAVWEGRIYILGGYSWENTAFSKTVQVYDREADKWSRGVDLP KAIAGGSACFIAP*SLGQRTKRKAKARGTRTGASDPSCASWDH PHRHLPGICRPAATS
5915	1604	703	FFGRPTPLKLGRRRRRARI IQAPHCHSPRPTCPPGALQAPEA PASRAEGPVAVVNGHTEGPAPARSAPKEPPGLPRPLGSPFCPT PQEDFPALGGPCPPRPPSPGFSVAVLLKGTTPPPPPGLVPPIS KPPPGFSGLLPSHP\PVSPAPPPPPQK/RPRLLPAP/PGLPS PRELPGHEFSAPVHQGLPAERRGPLQRVQEPRLRGVQTGPDLS PVQLQLPGPAGGEFFPEGL*AAAGPAAH
5916	256	633	SPRMWEIWPWHRWESFSLGEWPSRIPEPSPDSTKGTSGKGR TVTGAVHRLHNVAGIIPWVLSQLKPTAATAQDQWTSQQYPDH PTRLILQ*NQATADKNN*TTALLQPHQL\VSPRMABA
5917	1343	827	ABQILTYLEP/ICLVVNYNKILTFLTKSVLEI*KFIHTPTQTYR

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5918	13	1247	<p>*NDFFGIKEVYVSRRLRKTSP/RLAVTFLEQAVVSKECVPVDQ FMEHLLPSLLSLASDPVFNVRVLLAKALRQMLLEKAYFRNAGNP HLEVIRETILALQSDRDQDVSPFAALEPKRRNIIDTAVLEKQN</p> <p>EGAQVARRRSRRQWRAGRCGRGGRRAERTGGRGPPGRPRPLP PGPARRGRRRMETPFYGDALSGLGGASGSGGTFA SPGRPLPFG APPTAAAGSMKKDALTLSEVAAALKPAPAPASYPFA\ADG APSAAPPDGLIASPDLGLLLKASPELERLI IQSNGLVTTTPTSS QFLYPKVAASEEQEFAGGFVKALEDLKQNLGAGRAAAAAA AGGPGSGTATGSAPPGLAPAAAPEAPVTA\NLSSY\AGGCRGL RGGAAT\VAFAABPVPPPPPPPGALGPRRP/RLALQGRRPQT PDVP\SGGSP\PLSPIET\DTPRRI\KAKRKL\RNPQIRAPK PASRKLGQAQRALERESDPS*SPHGSILASTASLLRQVAQLK QKVLSHVNSGCQLLPQHQPAY</p>
5919	1	4254	<p>TSVQGDSSQGTPTSSQGSINMRHWISQAIHGSTTSTSSSSTQSG GGGAHRLADVMAQTHIENHSAPPDVTYTSSEHSIQVERPQGST CSRTAPKYGNABLMEGTGDPVSVSRVSAKIQQLVNTLKRPRRP LREPPVDDFEELLEVOQPDPNQPKPEGQMLAMRGELGVVTNW PPSLEAALQWGTISPKAPCLTMDTNGKPLYILTYGKLWTRSM KVAYSILHKLGTQEPMVRPGDRVALVFPNNDPAAFMAYFGCL LAEVVPVPIEVPLTRKDAGSQOIGPLGSCGVTVALTSDACHKG LPKSPGTGEIPQFKGWPKLLMFVTSKHLKPPRDWF\PHIKDAN NDTAYIEYKTC\DGSLVGVTVTRTALLTHCQALTOACGYTBAR TIVNVLDFKDKVGLMHGILTSVMNMHVISIPYSLMKVNPLSWI QKVCQYKAKVACVKS RDMHWALVAHRDQORDINLSSRLMLIVADG ANPWSISSCDAFLNVFQSKGLRQEVICPCASSPEALTVAIRRP DDSNQPPGRGVLSMHGLTYGVIRVDSEKLSVLTVDVGLVMGP AIMCSVKPDGVPQLCRTDEIGELCVCAVATGTSYGLSGMTKNT PEVFAMTSSGAPISEYFFIRTGLLGFVGGGLVVFVVGMDGLMV VSGRRHNADDIVATALAVEPMKFVYRGRIVFSVTVLHDERIVI VAEQRPDS TEEDSFQWMSRVLQAIDS IHQGVVYCLALVPANTLE KTPGLGHLSETKQLFLEGLHPCNVLMCPHTCVTNLPKPRQKQ PRIGPASVMVGNLVSGKRIAQASGRDLQIBDNDQARKFLFLSE VLQWRAQTTPDHILYTLNCRGA IANSLTCVQLHKRAKIAVML MERGHLQGDHVALVYPPGIDLIAAFYGCCLYAGCVPITVRPPHP QNIATTLPTVKMIVEVSRSACLMTTQLICKLRSREAAAVDVR TWPLILD TDD*PKKRAQICKPCNPDTLAYLDFSVSTTGMLAGV KMSHAATSAPCRS IKLCBELYPSREVAICLDPYCGLGFWLWCLC SVYSGHQSILIPPSELETNPALWLLAVSYQYVRDFTCSYSVMEL CTKGLGSQTESLKARGLDLSRVRTC VVAERPRIALTQSFSKL FKDLGLHPRAVSTSPGCRVNLAI CLQGTSGDPDTTVYVDMRALR HDRVRLVERGSPHSLPLMESGKILPGVRIITANPETKGLGDSH LGEIHWVHSAHNASGYPTIYGDESLSQDHFNRLSFGDTQT IWAR TGYLGFLRRTELT DANGERHDALYVVGALDEAMELRGMRYHPID IETSVIRAHKSVTECAVFTWNLV VVVELDGSQKALDLVPLV TNVLEEHYLVIGVVVVVDIGVIPINSRGEKQRMHLRDCFLADQ LDPIYVAYNM</p>
5920	1381	1499	<p>QLCAVAHAGVSRIPP*LFPPLHPTFLSLWCLHHKLP/HPPGASM VRPPVVPVRPPAHISSVRQASTQVPRTPVHTQVAVNIGTQTGP SGVGCTPGRPLLPCKCSSAAHSTYRVQEPVAVHIPGQEPLTAM LAAAPLHEQKQMIGERLYPLIHDVHTQLAGKITGMLEIDNSEL LMLLESPELSHAKIDEAVAVLQAHQAMEQPKAYMH</p>
5921	727	157	<p>VCPGTGGE*GLWQLGGLPKETPLKPMDAFTGSGLKRKFDDVDV GSSVNSDDEISSDSADSCLNPPPTASPTPTSILKROKQLR RKNVRFDQVTVYYPARRQGFSTVPSQGGSSLGMAQRHNSVRSYT LCEFAQEQEVNHREILREHLKEEKLHAKMKLITKNGTVESVHAD GLTDDVSDDEDIDVENVEVDYFFLQPLPTRRRALLRASGVHR IDAEKQELRAIRLSKEECGDCRLYCDPEACCSQAGIKCQVD RMSFPCGCSRDCGCMAGRIEFNPIRVTRTHVLTIMKLELESKR Q\GAAQPPQ*GALPDCQLQPDRTSTGL*DPSWIGSKGLSFTGKG AAATHLIILRVLENRGAEGRK</p>
5922	2475	495	<p>SYSNWGLPPSVFIQVPRSRGTGNLKPFLFYSYE\CMETLKG\T</p>

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			CLYNATQYVCSPPNRDPACYNPSEPAATTVFEIRTGILLGDT SKIITRTBEKEIPKQITLRFDAACAINSKKLEIGCGSIN*ERS* RVENKYVCHESGVCKNCAYWPCVI*AT*KKNKNSVYLQKGEAN PSCAAGHCNPLELITNPLDPHKKGERVTGLNRTGLKQVVI LIKGEVHKCSPKPVFQTFYEELNDPAPELKKTKNLFQLAENV IFLNGTSCYVRGGTTIGDRWPWEA*ELVPTDPAPDIPI*KAE ASMF*VLKTSIIROYCIAREGKDFIIPVGKPNICIGRLYNSTTK TIT*DLNHYTEKNPFSKFSKLKTA*AHAESEH*DWTVPSGLY*IC RHRAYFRLPNKWADSCVIGTIKPSFLLPLIKMGELLGFSVYASR EKKGIVIGNWKDNEWPRERIIQYYGPATWAQDGSWGYR/TP/VY MLNWIIRLQAILLEIISNETGRALTVLAWQETQMRNATYQNRRLA DYLVAEGGVCRKPNLTNCCLOINDQGVVKNIVRDMTKLAHVP IQVWHKFDPESLPGKWFPAGGFKTLIVGVLLVIRTCLLLPVCL PLLFQMIKGIIVATLVHQTSAHVNYMNHYSISQDQSKSEDESE NSH
5923	137	638	QLCGRRGQRFRTSIKRMHPI*RTCPNTNL/IILLSQENTQIRDL QQENRELWISLEEHQDALELIMSXYRKQMLQMLVAKKADEPV LKAHQSHSAIESQIDRICEMGEVMRKAVQVDDQFCIKQEKLA QLELENKELRELLSISSESLQARKENSMDSASQAIK
5924	274	2146	EKGKVKDAGAEQWISLSLSCGSGSWETQFSNHLNLSITPPTSVR RM PLITTTVTLKMWARHMHKLLCSKAPSTOLQKKIFLHSGMGIHQ SVMCKLKNPTSHIISILMGQPMALVQLETAPLITIIIQKPTQD HMKFWKNLPLHSHHLTPSPVQTVIPKKTGSPKIKLKITKTIONG RELFESSLCGDLNWKQASE\Q*NQSIERSKRRKKSNNKHSSR SEERKSHKIPKLEPEBQNRPNERNVDVTSEKPREEPVLKBSGSPS ANTI PCSNNGSVHW\FKQVQGLVWSKVGTYFWPCMVSSDPQL EVHTKINTRGAREYHVQFFSNQPERAWVHEKRVREYKGHKQYEE LLAETKQASNNHSEKQIRKPRQREARQWDIGLAHAELKALMT REERI EQYTFIYIDKQPEBALSQAKKSVAASKTEVKKTRRPSVL NTQPEQTNAGEVASSLSSTETRRHSQRRHTSAEERPPPVKIAW KTAARKSLPASITMHKGSLLDLOKCNMSPVVKIEQVFAIQNATG DGKFIQDFVYSTKGIGNKTRISVRGQDRLLISTPNQRNEKPTQS VSSPEATSGSTGSVEKKQRRSIRTRSESSEKSTEVVPKKIKKE QVGFLEHVES
5925	216	1911	MMTAESEATGLSPQAQAEKDGIVIVKVEEDEDHMGQDSTL QDTPPPDPEIFRQFRFRFCYQNTFGPREALSRLKELCHQWLRPE INTKEQILELLVLEQFLSILPKELQVWLQEYRPOSSEAVTLLE DLELDLSGQQVPGVHGPEMLARGMVPLDPVQSSSFDLHHEAT QSHFKHSSRKPRLLQSRALPAHIFAPPHEGSPRDQAMASALFT ADSQAMVKIEDMAVSLILEEWGCQNLARRNLSRDNRQENYGSAP PQGGENRNNEESTSKAKTSSEDSASRGETTGRSQKBPGEKRDQE GKTGERQQKNPEKTRKEKRDSPGPAIGKDKTTTGERGPREKKG GLGRSPLSSNFTTPEEVPTGTSHRCECGKCFTRSSSLIRHK I IHTGEKPYECSECGKAP\SLNS\NLVLHQRI\HTGEKPEHCNE CGKAFSHSSNLILHQRIHSGEKPYECNECGKAFSQSSD\LTKEHQ RIHTGEKPYECSECGKAFNRNSYLILHRRVHTREKPYKCTKCGK \AFTRSSSTLTLHHRHARRASEYSPASLDAPGAFLKSCV
5926	2	233	DRCLMLKQGSQPGSPAT/CEPPAPPVYQAFQSCPEPPGAHEP SDSPHHTPVHPPPEHSAACAPATCCPPPRSSMS
5927	4146	1248	KHFSKFGSQALYQLKRPASQNSISVMPAQKITKPAKYGIPLA YKKGDKKLHEKKPLQKHQAHQTPBKRVNTGERRKISEEAA RRRLEFIEKEKKQDKQIISLMKAEQMKRQEKERLERINRAREQC WRNVLSAGSGSEVKAPFLGSGGTIAPSSFSRGGYEHYHAI FQ MQQRAEDNEAKWKRBIYGRGLPERQKQQLAVERAKQVEEFLOR KREAMQNKARAEGHMGILQNLAAMYGORPSSSRGGKFRNKEEV YLARLRQIRLQNPNERQQIKAKLRGEKKEANHSEGGSEADM RRRK\TESLKAHANARAALKEQLERKRKAYEREKKVWBEHLV AKGVKSSDVSPPLGQHTGGSPSKQMRSVISVTSALKRVGVD S SLTDRETSEEMQKTNNAISSKREILRRLNRNLKAKKDEKQKQ LSDTFEINVHEDAKKHEKEKSVSSDRKKWEAGGQLVIPLDELTL DTSFSTTERHTVGEVILKLGPNGPSRRANGKSPDQSVLKILGEAE

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			<p>LQLQTELENTTIRSEISPEGEKYKPLITGEKKVQCISHRINPS AIVDSPVETKSPFSEASPMQSLKLEGNLEPPDDLETEILQEPS GTNKDE\SLPCTITDQWISSEKKTETQSADRITIQENEVSDEG VSTVDQLSDTHLEPGTNDQSHSKCDVDKSVQPEPPFKVHSE HLNLPQVQSVQCSPEESFAFRSHSHLPKKNKNKNSLLIGLSTG LPDANNPKMLRTCSLPDLKSLFRTLMQVPTVGDVRQDNLEIDEI EDENIKEGPSDSSEIVFEETDTDLQELQASMEQLLRBQPGEEYS EEEESVLKNSDVEPTANGTDVADEDDNPSSSALNERNWHSNDS GETASECECDVFNHLEELRLHLEQEMGFKEKFEVYEKIKAIHE DSDENIEICSKIVCNILGNEHQHLYAKILHLVMDAGAYQEDNDE</p>
5928	4146	1248	<p>KHFSKFGSQALYQLKRPASGQNSISVMPAQKITKPAKYGIPLA YKKYCDKKLHEKKPLQKHQAQHTPEKRVNTGEERRKISEAAR KRRLEPIEKEKKQKQIIISLMKAEQMKRQEKERLERINRAREQG WRNVLSSAGSGEVKAPFLGSGGTIAPSSFSRQYEHYHAIPDQ MOQRAEDNEAKWKREIYGRGLPERQKQQLAVERAKQVEEFQR KREAMQNKARAEHGMILQNLAAHYGGRPSSSRGGKPRNKEBEV YLARLRQIRLQNFNERQQIKAKLGEKKEANHSEGGQSGSEADM RRRK\IESLKAHANARAAYLKEQLERKRKRAYEREKKVWEHLV AKGVKSSDVSPPLGQHTGGSPSKQMRSVISVTSALKVEGVDS SLDTTRETSEEMQKINNAISSKREILRLNENLKAQEDKQKON LSDTFEINVHEDAKEHEKEKSVSSDRKKWEAGGQLVPLDELTL DTSFSTTERTITGEVILKLPNGSPRRANGKSPDTSVLKILGRAB LQLQTELENTTIRSEISPEGEKYKPLITGEKKVQCISHRINPS AIVDSPVETKSPFSEASPMQSLKLEGNLEPPDDLETEILQEPS GTNKDE\SLPCTITDQWISSEKKTETQSADRITIQENEVSDEG VSTVDQLSDTHLEPGTNDQSHSKCDVDKSVQPEPPFKVHSE HLNLPQVQSVQCSPEESFAFRSHSHLPKKNKNKNSLLIGLSTG LPDANNPKMLRTCSLPDLKSLFRTLMQVPTVGDVRQDNLEIDEI EDENIKEGPSDSSEIVFEETDTDLQELQASMEQLLRBQPGEEYS EEEESVLKNSDVEPTANGTDVADEDDNPSSSALNERNWHSNDS GETASECECDVFNHLEELRLHLEQEMGFKEKFEVYEKIKAIHE DSDENIEICSKIVCNILGNEHQHLYAKILHLVMDAGAYQEDNDE</p>
5929	3	1558	<p>LDFSMITQLPAYVAILLFYVSASQDPTFAAVYEHAAILPNAT LTPVSRREALALMNRNLDILEGATSAADQAHIIIVTPEDAIYQ WNPNRSLYPYLEDIPDPEVNWIPCNNRNRFQGTFFVQERLSC\AKNNSIYVVANIGDKKPCDTSDDQCPDGRYQYNTDVVF\DSQG KLVARYHKQNLPMGRNQFNVPKREPIVTFNTTFSGSPGIFTCDI LPHDPAVTLVKDFHVDIVFPTAMNVLPHLSAVEFHSAMWGM RVNFLASNIHYPSKKMTGSGIYAPNSSRAHYDMKTEBGLKLLS QLDSPSHSAVWNWTSYASSIALSSGNKEFGTVFFDEFTFVK LTGVAGNYTVQKDLCHLSYKMSNIPEVYALGAFDGLHTVE GRYYLQICTLLKCTTNLTCGDSARTASTRFEMPSLSGTFGTQ YVFFEVLLSENQLAPGEFQVSTDRGLFSLKPTSGFVLTVTLEGR LYEKDHWASNASGLAQARIIMLVIAPIVCSLSW</p>
5930	113	6082	<p>RGNCFWIVPPTMAQRTGLEDPERYLFVDRAVIYNPATQADWTAK KLVNIPSERHGFPAASIKBERGDEVVVELAENGKKAMVKNDDIQ KMNPPKPSKVEDMAELTCLNEASVLHNLKDRYYSGLIYYSGLF CVVINPYKNLPIYSENLIEMYRGKKRHEMPPHIYAISESAYRCM LQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSHKGKRDEN IPGE\LERQLQANPILESFGNARTVQNDSSRFGKPIRINFVDV TGYIVGANIETYLEKSRVROKDBERTFHFYQLLSG\AGEHL KSDLLLEGFMNRYFLSNGYIPICQ\QDKGNFRGDPGEAMHMG FSHEEILSMLKVSSVLQFCNISFKKERNTDQASMPENTVAQKL CHILGMNVMEFTRAILTPRIKVGDRYVQKQTKQADFAVEALA KATYERLFRWLVRINKALDRTRKQASFIGILDIAGFEIFELN SFEQLCINYNELKQLFNHMTPILEQEEYQREGIEWNFIDFGL DLQPCIDLIERPANPPGVALLLDEBCWFPKATDKTFVEKLVQEQ GSHSKFQKPRQLKDKADFCIIHYAGKVDYKADENLMMKMDPLND NVATLHQSSDRFVARELWQVDRIVGLDQVTGMTETAFGSAYKT KKGMFRTVGLYKESLTKLMATLKNTPNPNFVRCIIPNHRKRAGK LDPHLVLDQLRCNGVLEGIRICRQGFNNRTVQEPFRQRYEILTP</p>

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			<p>NAIPKGFMDGKQACERMIRALELDPNLYRIGQSKIIFRAGVLAH LEERDLKIITDIIFFQAVCRGYLARKAFKKQQLSALKVLR NCAAYLKLHWWQWVRVFTKVKPLQVTRQEEELQAKDELLKVK EKQTKVEGELEEMERKHQQLLEEKNILARQLQAE TELFAEAEEM RARLAACKQLEELHDLLESRVBEEERNQILQNEKKKMQAHIQ DLEEQLDEBEGARQKLQLEKVTAEAKIKKMEEEILLLEDQNSKF IKEKKLMEDRIAECSSQLAEERKAKNLAKIRNKQEVMSIDLEE RLKKEEKTROELEKAKRKLDGETTDLQDQIAELQAIIDELKLQ AKKEEELQALARGDDETLHKNNALKVVRBLQAQIAELQEDFES EKASRNKAEKQKRDLSBELEALKTELEDTLDTAAQQLRTKRE QVVAELKKALEEBETKNHRAQIQDMRQRHATALEELSEQLQAKR FKANLEKNKQGLETDNKEACEVKVLOQVKAESHEKRRKLDQV QELHAKVSEGDRLRVLEAKASKLQNELDNVSTLLEERKKGKIK FAKDAASLESQIQDTQELLQETROKLNLSRIRQLEEEKNSLQ EQEEEBERARKNLEKQVLAQSLADTKKKVDDDLGTIESLEEA KKLLKDAEALSQRLEEKALAYDKLEXTKNRLQQLDLDLTVDLD HQRVASNLKKQ\KKFDQLABEKSISARYAEBDRABARARE KETKALSLARALEALEAKEEFERQNKQLRADMEDLMSKDDVG KNVHELEKSKRALEQQV\BEMRTQLEELEDELDQATEDAKLRLEV NMQAMKAQFERDLQTRDEQNEBEKRLIKQVRELEAELEDERKO RALAVASKKKMEIDLKDLAQIEAANKARDEVIKQLRLKLAQMK DYQRELEERASRDEIFAQSEKSEKKLSLEAEIQLQLEELASS ERARRHAEQERDELADEITNSASGKSALLDEKRRLEARIAQLEE ELEEBQSNMELLNDRFRKTLQVDTLNAELAAERSAAQKSDNAR QQLERONKELKAKLQLEGA VKSKFKATISALEAKIGQLEEQLE QEAKERAAANKLVRRTKELKEIFMQVEDERRHADQYKEQMEKA NARMKQLKRLQLEAEZEATRANASRRKLQRELDDEATEANEGLSR KVTSLKNRLRRGGPISFSSSSRSGRRQLHLEGASLELSDDDTBSK TSDVNETQPPQSE</p>
5931	113	6082	<p>RGCFWIVPPTMAQRTGLEDPERYLFVDRAVIYNPATQADWTAK KLWVIPSERHGFRAASIKKEERGDEVMMVLAENGKAMVNKDDIQ KNPPKPSKVEDMAELTCLNEASVLENLKDRYISGLIYTYSGLF CVVINPYKNLPITYSENIEMTRGKKRHMPPHIYATISBSAYRCM LQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSHGRKDNH IPGE\LERQLLOANPILFESFGNARTVQNDSSRFKGFIRINFDV TGYIVGANIETIYLLKSRVAVQAKDERTFHFYQLLSG\AGEHL KSDLLLEGFNNYRFLSNYIPIPGQ\QDKGNFRGDPGRAMHMG FSHEEILSMLKVVSSVLQFGNISFKKERNTDQASMPENTVAQKL CHLLGMNVMEFTRAILTPRIKVRDYYVQIAQTKBQADFAVBALA KATYERLFRWLVRINKALDRTKRQGSFIFIGILDIACFEIPFLN SFEQLCINYNTEKIQLEFNHMTFIEQBEYQREGIEWNFIDPGL DLQPCIDLIERPANPPGVALLDDEECWFFKATDKTFVEKLVQEQ GSHSKFQKPRQLKDKADFCIIHYAGKVVDYKADSWLMKNMDPLND NVATLLEQSSDRFVABLWKDVDRIVGLDQVTEMTETAPGSAYKT KKGMEFTVGQLYKESLTKLMATLRNTNPNFVRCIIPNHEKRACK LDPHLVLDQLRCNGVLEGIRICROGFPPNRIVQBFPRQRYEILTP NAIPKGFMDGKQACERMIRALELDPNLYRIGQSKIIFRAGVLAH LEERDLKIITDIIFFQAVCRGYLARKAFKKQQLSALKVLR NCAAYLKLHWWQWVRVFTKVKPLQVTRQEEELQAKDELLKVK EKQTKVEGELEEMERKHQQLLEEKNILARQLQAE TELFAEAEEM RARLAACKQLEELHDLLESRVBEEERNQILQNEKKKMQAHIQ DLEEQLDEBEGARQKLQLEKVTAEAKIKKMEEEILLLEDQNSKF IKEKKLMEDRIAECSSQLAEERKAKNLAKIRNKQEVMSIDLEE RLKKEEKTROELEKAKRKLDGETTDLQDQIAELQAIIDELKLQ AKKEEELQALARGDDETLHKNNALKVVRBLQAQIAELQEDFES EKASRNKAEKQKRDLSBELEALKTELEDTLDTAAQQLRTKRE QVVAELKKALEEBETKNHRAQIQDMRQRHATALEELSEQLQAKR FKANLEKNKQGLETDNKEACEVKVLOQVKAESHEKRRKLDQV QELHAKVSEGDRLRVLEAKASKLQNELDNVSTLLEERKKGKIK FAKDAASLESQIQDTQELLQETROKLNLSRIRQLEEEKNSLQ EQEEEBERARKNLEKQVLAQSLADTKKKVDDDLGTIESLEEA</p>

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			KKLLKDAEALSQRLEEKALAYDKLETKNRLQBELDLTVOLD HQKQVANSLEKKQ\KKFDQLLAEEKSISARYAERDRAEARE KETKALSARALEEALAEKEEFERQNKQLRADMEDLMSSKDDVG KNVHELEKSKRALEQQV\BEMRTQLEBLEDELQATEDAKLRLV NMQAMKAQFERDLQTRDEQNEKKRLITQVRELEARELEDERKQ RALAVASKKMEIDLKDLAQIRANKARDEVITQRLKLAQMK DYQRLEERARASRDEIFAQSESEKLLKSLAAILQLQEELASS ERARRHABQERDELADRIITNSASGKSALLDEKRRLEARTIAQLRE ELEEEQSNMELLNDRFRKTTLQVDTLNAELAAERSAAQKSDNAR QQLERQNKELKAKLQLEGAVERKFKATISALEAKIGQLEEQLE QEAKEAAANKLVRTEKKLKEIFMQVEDERRHADQYKEQMEKA NARMKQLKRQLEAEERATNANASRRKLQRELDATANEGLSR EVS TLKNRLRRGGPISFSSSRSGRRQLHLEGASLELSDDDTESK TSDVNETQPPQSE
5932	33	572	RHLEECFLFLQGRKLKLSGPRNEEGKPRGTGGLVWKAENMG FGATLAVGLTIFVLSVTIIICFTSCCCLYKTCRRPRPV\APP PHPP/PVVHAPYPPPSVPPSYPGPSYQGYHTMPQPGMPAIFY PMQYPPPYPAQPMGPPAYHETLAGGAAAPYPASQPPYNPAYMDA PKAAL
5933	1	3190	GTRKLLKMAKTPGGSQKASSKTRSSDVHSSGSSDAHMDASGFS SDMPSRTRPKSPRKHNRYNESARESICDSPHQNLRSRPLENKLK APSIGKMSTAKRTLKKEQEELKKKEDEKAAAIYEEFLAAFEQ SDGNKVKTFVRGGVVNAAKEHEHETDEKRGKIYKPSRPFADQKNP PNQSSNERPPSLLVITKKPPLKKGKKEKKSNLELFKEELKQI QBERDERHKTGRLSRFEPQSDSDGQRRSMDAPSRNRSSGVL DDYAPGSHDVGDPSTT\NFYLGNI\NPQMNKKCCQEPGRFGP LASVKIMWPRTDEERARERNCGFVAFMNRDAERALKNLNGKMI MSFEMKLGWKAVP\PPHPIYIPPSMMEHTLPPPPSGLPFNAQP RERLKNPNAPMLPPPKNKEDPEKTLQAIVKVIPTERNLLALI HRMIEFVVREGPMFAMIMNREINNPMFRFLFENQTPAHVYRW KLYSILQGDSPTKWRTEDFRMFKNKGSFWRPPLNPLYHGMSEEQ ETEAFVEEPSKKGALKKEQDKLEELRGLTPRKNDIGDAMVFC LNNAAAEIIVDCITBSLSILKTPLPKKIARLYLVSDVLYNSSA KVANASYRKFFETKLCQIFSDLNATYRTIQHQLQSENFQKQVM TCFRAEDWAIYEPFLLKQNIPLGLVNIIEKETEDVDDLD GAPIEEELDGAFLDVGIPIDATPIDDLGVPIKSLDDDLGCV PLDATEDSKKNEPIFKVAPSEKVADESELEAQAVTTSKWELEF QHESEEEENQNEESEDEEDTQSSKSREHLYSNPIKEMTE SKFSKYSEMSEKRAKLEIELKVMKFDLESGKRPKPGQSF QEQVBHYRDKLLQREKEKELEEREREDKKDKLESRSKDKKKK DECTPTRKERKRHSTSPSPSRSSSGRRVKSPPKSESRSESR SHKESSRSRSHKDSRSDVSKAKRSPSGSRTPKRSRRSRSP KSGKKSRSQSRSPHRSKKSNGKINTGRKPKKAVTYWKCDLF LCPERSVF
5934	1	3190	GTRKLLKMAKTPGGSQKASSKTRSSDVHSSGSSDAHMDASGFS SDMPSRTRPKSPRKHNRYNESARESICDSPHQNLRSRPLENKLK APSIGKMSTAKRTLKKEQEELKKKEDEKAAAIYEEFLAAFEQ SDGNKVKTFVRGGVVNAAKEHEHETDEKRGKIYKPSRPFADQKNP PNQSSNERPPSLLVITKKPPLKKGKKEKKSNLELFKEELKQI QBERDERHKTGRLSRFEPQSDSDGQRRSMDAPSRNRSSGVL DDYAPGSHDVGDPSTT\NFYLGNI\NPQMNKKCCQEPGRFGP LASVKIMWPRTDEERARERNCGFVAFMNRDAERALKNLNGKMI MSFEMKLGWKAVP\PPHPIYIPPSMMEHTLPPPPSGLPFNAQP RERLKNPNAPMLPPPKNKEDPEKTLQAIVKVIPTERNLLALI HRMIEFVVREGPMFAMIMNREINNPMFRFLFENQTPAHVYRW KLYSILQGDSPTKWRTEDFRMFKNKGSFWRPPLNPLYHGMSEEQ ETEAFVEEPSKKGALKKEQDKLEELRGLTPRKNDIGDAMVFC LNNAAAEIIVDCITBSLSILKTPLPKKIARLYLVSDVLYNSSA KVANASYRKFFETKLCQIFSDLNATYRTIQHQLQSENFQKQVM TCFRAEDWAIYEPFLLKQNIPLGLVNIIEKETEDVDDLD GAPIEEELDGAFLDVGIPIDATPIDDLGVPIKSLDDDLGCV

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			PLDATEDSKKNEPIPKVAPSKWEAVDESELEAQA VTTSKWELFD QHEESEKERNQNEESEDDEDTQSSKSEHHLYSNPIKEEMTE SKFSKYSEMSEEKRAKLREIELKVMKQDELESGKRPKKPGQSF QEQVEHYRDKLLQRBKEKELERERERDKDKKLESRSKDKKEK DECTPTRKERKRRHSTSPSPSRSSSGRRVKSPPSPKSERSESR SHKESRSRSSHKDSPRDVSKAKRSPSGSRTPKRSRRSRSP KSGKSRSSQSRSPHRSHKSKGKTNTGRKFFKAVTYWKCDLP LCPERSVF
5935	3	4493	SYNLSGNRLSRPPRPQWAGNRGIGRFGTMAPVHGDDCRIGASAL SDSGSPVSSRARREKKSKKGRQEALERLKKAKAGERYEVEDF TGVYEBVDEEQYSKLVQARQDDDWIVDDDGIGYVEDGREIFDD LEDDALDADEKGDGKARNKDRNVKLA VTKPNNIKSMFIACA GKKTADKAVDLSDGLLGLDILQDLNTETPQITPPVMIKKRS IGASPNPFSVHTATAVPSGKIASPVSRKEPPLTPVPLKRAEFAG DDVQVESTEEQESGAMEFEDGDFDEPMVEEVDLEPMAAKAWD KESEPAREVKQZADSGKGTVSYLGSFLPDVSCWDIDQEGDSSFS VQEVQVDSSHLPLVKGADDEQVFFHYWLDAYEDQYNQGVVFLF GRVWIESAETHVSCCVMVKNIERITLYFLPREMKIDLNTGKKTGT FISMKD VYEFDEKIA TKYKIMKPKSKPVEKNYAFEIPDVPEKS EYLEVKYSAEMPQLPQDLKGETTFSHVFGTNTSSLELFLMNRKIK GPCWLEVKKSTALNQPSWCKVEMALKPDLVNVIKDVSPPLV VMAFSMKTMQNAKNHQNIEIAMAALVHHSFALDKAAPKPPFQSH FCVVS KPD CIPYAFKEVIRKKNVKVEVAATERTLLGFFLAKV HKIDPDIIVGHNIYGFLEVLQLRINVCAPHWSKIGRLKRSNM FKLGGRSFGERNATCGRMICDVBISAKELIRCKSYHLSLVQQ ILKTERVVI PMENIQNMYSESSQLLYLLEHTWKDA\KFLIQIMC ELNVLPLAQITNLAGNIMSRITLGGRSERNEFLLLHAFYENNY IVPDKQIFRKPOQKLGDEDEIDGDTNKYKGRKKGAYAGGLVL DPKVGFYDKFILLDFNSLYPSIIQEFNICFTTVQVVASRAQKV TEDGEQEIPELPDPSLEMGILPREIRKLVERRKQVKQLMKQOD LNPDLILQYDIROKALKLTANSMYGCGLGFSYSRFFAKPLAALVT YKGRILMHTKEMVQKNLEVIYGD TDSIMINTNSTNLEEVFKL GNKVKSEVNKLYKLEIDIDGVFKSLLLKKKKYAAALVVRPTSD GNYVTQKELKGLDIVRRDWCDA LARTGNFVIGQILSDQSRDTIV ENIQRLIEIGENVLNGSVFVSQFINKALTKDPQYDPDKKSLP HVHVALWINSQGGKVKAGDTVSYVICQDGSNLTASQRAYAPEQ LQRQDNLITDTQYLAQIHPVVARICEPIDGIDAVLIATGWEL \DPTQFKVHHYHKDEENDALLGGPAQLTDEEKYRDCERFKCPCP TCGTENIYONVFDGSGTDMPSLYRCSNIDCKASPLTFTVQLSN KLIMDIRRFIKKYDGLICEPTCRNRTRHLPQFSRTGPGLCP ACMKATLQPHYSDKSLYTQLCFYRYIFDAECALBKLTTHBBDK LKKQFPPTPKVLQDYRKLENTAEQFLSRSGYSEVNLSKLPAGCAV KS
5936	1124	139	RGEQFDAEFRRFACLGGERLQEFSLRLRAVHRSRAWTCYLAI RMLMATCCPSPTTTACTGPMQAPPLRLVQKRRADSSGLAFAS NSLQRRKKGLLLRPVAPLRTPLLLISLPQDFRQVSSVIDVLL PETHRRVRLHHGSDRPLGFFYIRDGMSVRVAPQG\LERVPGIFI SRLVRGGLAESTGLLA VSD EILEVNGIEVAGKTLNQVTDMMVAN SHN\LIVTVKPANQRNNVVRGASGRLTGPPSAGPGFAEPDSDDD SSDLVIENRQPPSSNGLSQGPPCWLHPGCRHPGTRSSLSPLDD QEQA SSGWGSRI RGDGSGFSL
5937	31	1600	PTSLKSTVQIMCRLQLQDKRYQCVYSLAEIFKVLASFYVILVIL YGLTSSSYSLWMLRSSLKQYSFEALREKSNYSIDIPDVKNDFAFI LHLADQYDPLYSKRPSIFLSEVSENKLRQINLNEWTVKELKSK LVKNAQDKIELHLFMLNGLPDNVFELTBMEVLSLELIPEVKLPS AVSQVLNKLKLRVYHSSILVVDHPALAFLEENLKILRLKPTMCK IPRWVFLKLNKLKELYLSGCVLPEQLSTMQLGFPQDLKLNRLTYL KSLSRIPQVVTDLPLSLQKLSLDNEGSKLVVLNNLKMVNLS LELISCDLERIPHSIPSLNNLHLDLRENNLKTVEEIIISFQHLQ NLSCLKLWHNNIAYIPAQIGALS NLEQLSDHNNIENLPQLQFL CTKLHYLDLSYNHLTFIPBEIQYL\SNLQYFAVTNNNIEMLPDG

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			LFQCKKLQCLLLGKNSLMNLS PHVGLSNLTREPTG\NYLETLPPELEGCQSLKRNCLIVEENLNLTLPLPVTERTLTCLDKC
5938	395	1865	YKGEFFCNQEARGERRRKKKAMSSPNIWSTGSSVYSTPVPFSQKMTVWILLLLSLYCGPTSQKSDDDYEDYASNKTWLTPKVPBGDVTVILNNLLEGYDNKLRPDIGVKPTLIHTDMYVNSIGPVNAINMEYTIDIFFAQIWTYDRRLKFNSTIKVLRNLSNMVGKIMIPDTFFRN SKKADAHWITTPNRMRLIWNDRVLYSLRLTIDAECCQLQLHNFP MDEHSCPLRFSSYGYPREETVYQWKRSSVEVGDTRSWRLYQFSF VGLRNTTEVVKTTSGDYVMSVYFDLSRRMGYFTIQTYIPCTLI VVLSWVSFWINKDAVPARTSLGITTVLMTLTSTIARKSLPKVS YVTAMDLFVSVCPFVFSALVBYG\TLHYFVSNRKP SKDKKKK KNPAPTIDIRPSATIQMNATHLQERDEBYGYECLDGKDCASF FCCPDCRTGAWRHGRIHRIAKMDSYARIFFPFAPCLFNLYVW VSYLYL
5939	66	1404	IRPGYLKEVQENSPGHRAGLEPPFFDFIVSINGSRLNKDNDTLKD LKANVRKPKVKMLIYSSKTLERETSVPISNLWGGQGLLGV SIR FCSFDGANENNVHVLVESNS PAALAGLRPHSDYIIGADTVMNE SRDLFSLIETHEAKPLKLYVNYTDTNCREVITIPNSAWGGEGS LGCGIGYGYLHRIPTRFPEEGKKISLPQOMAGTPIPLKDGFE VQLSSVNPSPSLPPGTTGIEQSLTGLSISSTP\PAVSSVLSTGV PTVP\LLPPQVNSQLTSVPPMSESSYLHLPLGLMPFTRQGLPNLPQ PSTFNLPR\PTHSWPGVGLYQEFVKPGVLPPLSSMPRNLPG\I AFLPLPSEFLPSFPLVPESSSAASSGELLSSLPTSNA PSDPAT TTA KADAASLTVDVTPPTAKAPTIVEDRVGDSTPVSEKPVSA VDAASESP
5940	145	717	RRSASRSASPRQAGTAVTTGTRAGGTCLAAAHHRMRWRADGRS LKELPVHMLGVI TEVEQEPSPFSDIASLVVWCMVAGISYISVYDH QGIFKRNNRSLMDEILKQQQELLGLDCSKYSPFANSNDKDDQV LNCHLAVKVLSPEDGKADIVRAQDFCQLVAQKQKRPITDLVDVT LA\VYLVQMVVLLII
5941	13	6147	MCLGRMGASSPSPPEPVGPAPGLPFCGGSLLAVVLLALPVA WGQCNAPBW\LPFARPTNLTDFFFPITGTYLNYECPGYSGRPF SIICLKNSVWTCADRCCRKS CRNPPDPVNGMVHVIKGIQPGSQ IKYSCTKGYRLIGSSSATCIISGDTVWNETPICDRIPCGLPP TITNGDFISTNRENPHYGSVVTYRCNPGSGGRKVFELVGEPSIY CTSNDDQVGWISGPAQCIIIPNKCTPPNVENGILVSDNRSLSL NEVVFRCPQPGFVMKGPERRVKQALNKWEPELPSCSRVCQPPPD VLHAERTORDKDNFSPGQEVFYSCBPGYDLRGAASMRCTPQGDW SPAAPTCEVKS CDDFMGQLLNGRVLFPVNLQLGAKVDFVCEBGF QLKGSASVYCVLAGMESLWNSVVPVCBQIFCPSPPVI\NGRHTG KPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTIRCTSDPQNG VNSSPAPRCGILGHCAQPDHFLFAKLKTQTNASDFFIGTSLKYE CRPEYYGRPF SITCLDNLVWS SPKDVCKRKSCKTTPDPVNGMVH VITDIQVGSRIYNSCTTGRLIGHSSAECILSGNAHNSWKPPY CORIPCGLPPTIANGDFISTNRENPHYGSVVTYRCNPGSGGRKV FELVGEPSIYCTSNDDQVGWISGPAQCIIIPNKCTPPNVENGIL VSDNRSLSLSLNEVVFRCPQPGFVMKGPERRVKQALNKWEPELPS CSRVCQPPPDVLHAERTORDKDNFSPGQEVFYSCBPGYDLRGAASMRCTPQGDWSPAAPTCEVKS CDDFMGQLLNGRVLFPVNLQLGA KVDVFCDEBGFQLKGSASVYCVLAGMESLWNSVVPVCBQIFCPS PVPINGRHTGKPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTI RCTSDPQNGVNSSPAPRCGILGHCAQPDHFLFAKLKTQTNASD FPIGTSLKYECPREYYGRPF SITCLDNLVWS SPKDVCKRKSCKT PDPVNGMVHVIDIQVGSRIYNSCTTGRLIGHSSAECILSGN TAHWSTKPPICQRI PCGLPPTIANGDFISTNRENPHYGSVVTYR CNLGSRGKVFELVGEPSIYCTSNDDQVGWISGPAQCIIIPNKCT PPNVENGILVSDNRSLSLSLNEVVFRCPQPGFVMKGPERRVKQA LNKWEPELPSCSRVCQPPPEILHGEHTPSHODNFSPGQEVYSCBPGYDLRGAASLHCTPQGDWSPAAPCAVKS CDDFLGQLPHGRV LFPLNLQLGAKVSFVCEBGFRLKGSVSHCVLVGMRSLSLWNSVP VCEHIFCPNPPAILNGRHTGTPSGDI PYGKEISYTCDPHPDRGM

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			TFNLIGESTIRCTSDPHNGVWSSPAPRCESVRAGHCKTPEQF PFASPTIPINDFEFPVGTSLNYBCRPYFGKMFSISCLNLVMS SVEDNCRKRS CGPPPEPFNGMVHINTDTQFGSTVNYSCNEGFR IGSPSTTCLVSGNNVTWDDKAPICEIISCBPPPTISNGDFYSNN RTSPHNGTVVTVYQCHTGPEDGBQLFELVGERSIYCTSKDDQVGVW SSPPPRCISTNKCTAPEVENAIRVPGNRSFSLTEIIRFCOPG FVMVGSHTVQCQTNGRWGPKLPHCSRVCQPPPEILHGEHTLSHQ DNFSPGQEVFYSCEPSYDLRGAASLHCTPQGDWSPEAPRCTVKS CDDFLGQLPHGRVLLPLNLQLGAKVSFVCDGFRLKGRSASHCV LAGMKALWNSSVPVCEQIFCPNPPAILNGRHTGTPLGDI PYGKE VSYTCDPHDRGMTFNLIGESTIRRTSEPHGNGVWSSPAPRCES PVGAACPHPPKIQNGHYIGGHVSLYLPGMTISYTCDFGYLLVGK GFI FCTDQGIWSQLDHYCKEVNCSFPLFMNGISKLEMKKVYHY GDYVTLKCEDGYTLEGSFWSQCCQADDRWDPPLAKCTSRTHDALI VGTLSGTIFFILLIIFLSWII LKHKGNNAHENPKEVAIHLHSQ GGSSVHPTLQTNENSRVLP
5942	4509	688	YLYVRMRANPLAYGISHKAYQIDPPL\RKHREQ\LVIE\VGRKL DK\AQMIRFEERTGYFSSTDLGRATASHYIKYNTIETPNEFLDA HKTEGDI FAIVSKAEZFDQIKVREEIEBELDTLLSNFCRLSTPG GVENSYGKINILQTYINRGEMDSFSLISDSAYVAQNAARIVRA LFEIALRKRWPTMTYRLLNLKSKAIDKRLWGWASPLRQFSILPH MLTRLEKKLTVDKLDKMRKDEIGHILHHVNI GLKVKQCVHQIP SVMMEAFIQPI TRTVLRVTLSIYADFTNNDQVHGT VGBPWIIWV EDPTNDHIYHSEYFLAKKKQVISKBAQLLVFTIPIFEPLPSQYY IRAVSDRWLGARAVCI INPQHLILPERHPPHTELLDLQPLPITA LGCKAYEALYNFSHFNPVQTQI FHTLYHTDCNVILGAPTGSCKT VAAELAI FRVFNKYPTSKAVYIAPLKALVREEMDDWKVRIEKL GKKVIELTGDVTPDKSIKADLIVTTPKWDGVSRSWQNRNYV QQVTILIIIDEIHLGEEERGVPLEVTVSRTNFISSTHTEKPVRIVG LSTALANARDLADWLNIKQMGLENFRPSVRPVPLEVHIQGFPGQ HYCPRMASMNKPAFOAIRSHSPAKPVLIFVSSRRQTRITALELI AFLATEEDPKQWLNMDEREMENIATVRDSNLKLTAFGIGMH AGLHERDRKTVELPVNCKVQV\IATSTLAWGVNFPALVI IKG TEYDYGKTRRYVDFPITDVLQMMGRAGRPOFDDGKAVILVHDI KDFYKKFLYEPFPVBESSLLGVLSDLNABEITAGOTITSKQDALD YITWTYFFRRLIMNPSYYNLGDVSHDSVNKFLSHLIEKSLIELE LSYCIHIGEDNRSIEPLTYGRIASYYLKHQTVKMFDRILKPEC STEELLSILSDAEYTDLPVRHNEHNMSELAKCLPIESNPHSF DSPHTKAHLIIQAHLSRAMLPCPDYDTDTKTIVLDQALRVQAML DVAANQGWLVTVLNITNLIQMVITQGRWLKDSLLTLPIENHHL HLFKWKPI MKGPHARGRTSIECLPELIHACGGKDHVFSMVBES ELHAARTKQAWNFLSHLPEINVGISVKGSDDLVEGHNELSVST LTADKDDNKWIKLHADQEVYLVQVSLQRVHFPGHKGPESCAVT PRFPKSKDEGWFLILGEVDKRELIALKRVGYIRNHHVASLSFYT PEIPGRYIYTLFMSDCYLGDLQDYD/NLSQRYTSESFCTGQHQ GL
5943	1	2274	DKPTRHKTYLSSSWAKMAAABGPGDGLWQTNLPNHVVFRLRLR EGLKNQSPTRAEPASSSLPSSPPQLLTRNVVFLGGLFLWD GEDSSFLVRLRGPSCGG\EPALSQYORLLCINPPLPEIYQVL LSPTQHVALIGIKGLMVLELPKRWGNSEFEFGKSTVNCSTTP VAERFPTSSTSLTKHAAWYPSRIIDPHVVLTSNDVIRIYSLR EPQTPTNVILSEABEBSVLNKGRAVYASLGETAFAVDFGPLA AVPKTLFGQNGKDEVVAYPLYLYENGETFLTYISLLHSPGN/I WKAVGSIAHAS\AADNNGYDACAVALCPVNPILVIATESGML YHCVVLEGEEDDHTSEKSWDSRIDLIPSLYVFECELELALAL ASGEDDPFSDSPSCPVKLHRDPKPSRYHCTHEAGVHSGVLTWI HKLHKFLGSDDEBDKSLQELSTEQKCFVEHILCTKPLPCRQAP IRGFWIVPDILGPTMICITSTYECLEWPLSTVHPASPPLCTR EDVEVAESPLRVLASTPDSFEKHRSILQRSVANPAFLKASEKD IAPPPEBCLQLLSRATQVFREQYI LKQDLAKEIQRVVKLLCDQ KKQQLDLSYCEBERKSLREMAERLADKYERAKEKQEDIMNRMK

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			KLHSHFSELPVLSDSRDMKKELQLIPDQLRHLGNAIKQVTMK KDYQQQKMEKVLSPKPTIILSAYQRKCIQSILKEGEHIREMV KQINDIRNHVNF
5944	167	3428	FSIATFTDEPEVLTEPPSATTITTTIGISATWITLAGSHGKRNT ITTTSSKRKNRKNKITPENQVLIIPDDPLFISYSQPEKVNAGESKS SSTSESGDSNDNRISSCSDSSNSNSRRKSDNHSFAVVTTTVSS KKQPSVLVTFPKEEKSVSGKASIKLSETISBGTNSLSLSTCTKS GPSPLSSPNGKLTVASPKRGQKRREGWKEVVRSSKKVSVSTVI SRVIGRGGCNINAIREFTGAIHIDIKQDKDTGRIITIRGGTES TRQATQLINALIKDPDKBIDELIPKNRLKSSANSKIGSSAPT TAANTSIMGIKMTTVALSSTSQTATALTVPASSASTHRTIKNP VN\NVREPGFPVSFF\LAYPPPOFAHALLAAQTFQOIRPPRLPMT HFGGTFFPAQSTWGFPPVRPLSPARATNSPKPHMVPRHNSQNS GSQVNSAGSLTSSPTITTTSSASTVPGTSTNGSPSSPSVRRQLF VTUVKTSNATITTTVTTASNNNTAPTATYPMPTAKEHYVSSP SSPSPPAQPGGVSRNSPLDCGSASPKNVASSSEGEAGSPVVT TNRPPNSSSSSSGSSSAHSNQPPGVSQEPRPPLQQSQVPP EVRMTVPPLATSSAPVAVPSTAPVTYPMPTQTMGCPQPTPKMET PATRPPPHGTTAPHKNSASVQNSVAVLSVNHKRPHSVPSSVQ LPSTLSTQSAQNSVHPANKPIAPNFSAPLPFGPSTLFENSPT SAHAFWGGSVVSSQSTPESMLSGKSSYLNSDPLHQSDTSKAPG FRPPLQRPAPSPSGIVNMDSPYGSVTPSSSTHLGNFASNISGGQM YGGAPILGGAPAAANFNQHFSPLSLLTPCSSASNDSSAQSVSS GVRAPSPAPSSVPLGSEKPSNVSDQRKVVPVIGTERSARIRQTG TSAPSVIGSNLSTSVHSGIWSFEGIGGNQDKVDWCNPGMGNPM IHRPMSDPGVFSQHQAMERDSTGIVTPSGTFHOHVPAGYMDFPK VGOMPFSSVYGNAMIPPVAPIPDGAGGPIFNGPHAADPSWNSLIK MVSSSTENNPGQTVWTGPWAPHMNSVHMNQLG
5945	1461	197	GVTHLPLFGKRKLNGIAEDLKGADFFLLVSEAVVATGSPRA WLTCLILPLPGIIFSVLPKAMSRPLLITFTPATDPSDLWKGQQ QPQPEKPESTLDGAAARAFYRALIGDESSAPDSQRSQTEPARER KRKKRRIMKAPABAVAGSAGRHGQGRLEAEDKMTIRILRAA QEGDLPELRRLLEPHEAGGAGGNINARDAFWWTPLMCAARAGQG AAVSYLLGRGAAWGVCELSGRDAAQLAEAGFPEVARMVRESH GETRSPENRSPTPSLQYCENDTHFQDSNHRSTAHLLSLSQGP QPNLPLGVPISSPGFKLLRGGWEPGMGLGPRGEGRANPIPTV LKRDOEGLGYRSAPQPRVTHFAWDTRAVAGRE\TPPRVATLSW REERRRRE\KDRAWERDLRTYMNLEP
5946	541	1666	ILGSYSSIQPEEYS\SVVC\BVVLQDLLA\YVSPK\HSYLRDLF SEGSPQRVNSIDFV\EL\EHLQPDVLVHVLRVVDF/TILTEAV YSYRGQKQKKVMTVEQAQDQHYALVWGPAGAW\YPQLQRKKG YIWEFKYLFVQCNYTLENLELHTTPWSSCECLFDDDIRAITFKA KFKSAPSFKISDLATHLEDKCSGVVLIKAQISKLAPPITASQ KIALNAHSSLSKSPSSLPTNYVTGCAKCGLEKLETDENRIYKQCF SCLPFTMKKIYYRPAALMTAIDGRHDVCIRVESKLEKILNLSA DCLNRVIVPSSRYTYGMVVDLFHSLLAASABPCVLKIQSLFVL DENSYPLOQDFSLDDFYDIPVKGANARL
5947	3	1317	RGIPDRRRRGPIGRVNMDELNVKVMGLGHEQCGAPCLCKCKE CEGPELHFWRKICRNC\NVAKKSM/TVLLSNBEDRVGKLFEDT KYTTLIAKLKSDGIPMYKRNVMILTNFVAACKNVSINTVITYENA PPVQNALARQYMQMLPKEKQPVAGSEGAQYRKKQLAKQLPAHD QDPSKCHELSPREVKRMBQFVKYKSEALGVGDVLPCEMDAQG PKQMNIPGGDRSTPAAVGAMEDKSAEHKRTQYSCYCKLSMKEG DPAIYAERAGYDKLWHPACFVCSTCHELLVDMIFYWKNBELYCG RHYCDEKPRCAGCDELIFSNEYTQAEONWHLKHFCCFDCDSI LAGEIYVMVNDKPVCKPCYVKNHAVVCQCHNAIDPEVQRTYN NFSWHAETECFLCSCCSKCLIGQKFMFVEGMVFCVBCCKRMS
5948	39	3370	YRERYPVSGSVLSALEVCNDFLSGLTEGSLLPGEFFSGPIDQ GNHYQMRRKGRCHRGSAARHPSSPCSVKHSPTRETLTYAQARM VEIETEGRLHRTISIFDPLEIILEODLTAQEMSECNSENKNSERP PVCILTRKHKNRNVKKNREALPSAHGTPASASALPBPVRIVEY

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			<p>SPPSAPRRPPVYKFKESAEELDNEVEYDMDEEDYAWLEIVNE KRKGDGCVPAVSQSMFEFLMDRFEKESHENQKQGEQSLIDBDA VCCI CMDGECQNSNVILFCDMCNLAVHQECYGVPIPEGQWLC/ RAHCLQSRARPADCVLCPNKGGAFFKTTDDRWGHV\VCALW\IP E\VGFAVTVFIEPIDGVRNIPPARWKLTCNLCKEKGKRG/VGACI QCHKANCYTAHVTCQAQKAGLYMKMBPVKELTGGGTTFSVRKTA YCDVHTPPGCTRRPLNIYGDVEMKNGVCRKESVKTVRSTSKVR KKAKKAKKALAEPCAVLPTVCAPYIPQRLNRIANQVAIQRRKQ FVERAHSYWLKRLSRNGAPLLRLQSSLSQSSSQSQQRENDDEM KAAKEKLYWQRLRHDLERARLLIELLRKREKLKREQVKVEQVA MELRLTPLTVLRSVLDQLQDKDPARIFAQPVSLKEVPDYLDHI KHPMDFAIMRKRLEAQGYKNLHEFEEDFDLIIDNCMKYNARDTV FYRAAVRLRDQGGVLRQARREVDISGLEEASGMHLPERPAAAP RRPFSWEDVDRLDPANRAHIGLEEQLRELLDMLDLTCAMKSSG SRSKRAKLLKKEIALLRNKLSSQHSQPLPTGPGLEGFEEDGAAL GPEAGEEVLPRLETLQPRKRSRSTCGDSEVEEESPGKRLDAGL TNGFGGARSEQEPGGGLGRKATPRRRCASESSISSNSPLCDSS FNAPKCGRGKPALVRRHTLEDRELSLSCIENGYAKAARIAAEV QSSMWISTDAAASVLEPLKVVWAKCSGYPSYPALIIDPKMPRV PGHNGVTIPAPPLDVLKIGEHMQTKSDEKLFVLFFDNKRSWQ WLPKSKMVPLGIDETIDKLKMMEGRNSSIRKAVRIAFDRAMNHL SRVHGEPTSDLSDD</p>
5949	39	3370	<p>YRRYPVSGGSLRSALFVCWDFLSGLTEGSLLEGGFFSGPIDQ GMHYQMRKGRCHRGSAAREPSPSCSVKHSPTRETLTYAQARM VEIBIEGRHLRHSIFDPLEIILEDDLTAEQMSBENSNKENSERP PVCLRTKRHKNNRVKKNEALPSAHGTPASASALPEPKVRIV3Y SPPSAPRRPPVYKFKESAEELDNEVEYDMDEEDYAWLEIVNE KRKGDGCVPAVSQSMFEFLMDRFEKESHENQKQGEQSLIDBDA VCCI CMDGECQNSNVILFCDMCNLAVHQECYGVPIPEGQWLC/ RAHCLQSRARPADCVLCPNKGGAFFKTTDDRWGHV\VCALW\IP E\VGFAVTVFIEPIDGVRNIPPARWKLTCNLCKEKGKRG/VGACI QCHKANCYTAHVTCQAQKAGLYMKMBPVKELTGGGTTFSVRKTA YCDVHTPPGCTRRPLNIYGDVEMKNGVCRKESVKTVRSTSKVR KKAKKAKKALAEPCAVLPTVCAPYIPQRLNRIANQVAIQRRKQ FVERAHSYWLKRLSRNGAPLLRLQSSLSQSSSQSQQRENDDEM KAAKEKLYWQRLRHDLERARLLIELLRKREKLKREQVKVEQVA MELRLTPLTVLRSVLDQLQDKDPARIFAQPVSLKEVPDYLDHI KHPMDFAIMRKRLEAQGYKNLHEFEEDFDLIIDNCMKYNARDTV FYRAAVRLRDQGGVLRQARREVDISGLEEASGMHLPERPAAAP RRPFSWEDVDRLDPANRAHIGLEEQLRELLDMLDLTCAMKSSG SRSKRAKLLKKEIALLRNKLSSQHSQPLPTGPGLEGFEEDGAAL GPEAGEEVLPRLETLQPRKRSRSTCGDSEVEEESPGKRLDAGL TNGFGGARSEQEPGGGLGRKATPRRRCASESSISSNSPLCDSS FNAPKCGRGKPALVRRHTLEDRELSLSCIENGYAKAARIAAEV QSSMWISTDAAASVLEPLKVVWAKCSGYPSYPALIIDPKMPRV PGHNGVTIPAPPLDVLKIGEHMQTKSDEKLFVLFFDNKRSWQ WLPKSKMVPLGIDETIDKLKMMEGRNSSIRKAVRIAFDRAMNHL SRVHGEPTSDLSDD</p>
5950	1166	373	<p>BSRSITMSTSQGACPCQGAASRPAILYALLSSSLKAVPRPSR CLCRQHRPVQLCAHRTCREALDVLAKTVAFLRNLPSPWQLPPQ DQRRLLQCGWPLFLGLAQDAVTFEVAEAPVPSILKILLER SSSGSGQLPDRPQPSLAQVWLQCCLESFWSLELSPKE\YACL KGPILFNPDPVPGQAASHIGHLQEAHWVLCVLEPWCAPAAQGR LTVLLTASTLKSIPSTSLGDLFFRP IIGDVIDIAGLLGDMILLR WNVKSPLLVLQKFKSDKEHEBQNDSTSGKTGETGVEMIAIRK VEQDSKETVKLSHEDDHILEDAGSSDISSDAACTNPKNKTENSLV GLPSCVDEVTECNLELKDITMGIAKTENTLERNKIETPLGYCEDA ESNRQLESTEFNKSNELEVVDTSTFGPESNILENAICDVPDQNSK QLNAIESTKIESHETANLQDDRNSQSSSVSYLESKSVKSKHTKP VIHSKQNMITDAPKKIVAAKYEVIIHSKTKVNVKSVKRNTOVPES QONFHRPVKVRKKQIDKEPKIQSCNSGVKSVKNQAHSVLKKTLQ</p>
5951	143	5449	

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			<p> DQTLVQIPKPLTHSLSDKSHAHPCGLKEPHHPAQTCGHVSHSSQK QCHKPQQQAPAMKTNHVKKELEHPGVEHFKEEDKLLKKPEKN LQPRQRRSSKSPSLDEPPLFIPDNIAITIRREGSDHSSSFESKYM WTPSKQCGFCCKPHGNRFMVGCGRCDDWPHGDCVGLSLSQAQOM GEEDKEYVCVKCAEDKKTEILDPTLENQATVEPHSGDKTME CEKLGSLSKHTTNDRTKYIDDTVKHKVKILKRESGEGRNSSDCRD NEIKWQLAPLRKMGQPVLPSSSEKSEKIPKESTTCTGK ASKPGTHEKQRMKKKIV\EKGVLVHFAASASKPSADQIRQSVR HSLKDIIMKRLTDSNLKVPREKAAKVATKIEKELFSPFRDQDAK YNKYRSLMFLKDPKNILPKVLKGEVTPDHLIRMSPEELAS KELAARRRRENRTIEMIEKQREVERRPITKITHKGEIEIESD APMKQBAAAMIQBPAANKSLEKPEGSEK\RXREVDSSMSKDTTS QHROHLFDLNCCKICIGRMAPPVDDLSEPKVKVVGVARKHSDNE AESIADALSSTSNILASEFFBEEKQESPKSTFSPAPRPEMPGT EVSTFLARLNFIFWKGFINMPSVAKFVTKAYPVSGSPYELTEDL PDSIQVCGGRISPTQVWDYVEKIKASGTKEICVVRFTPTVEEDQI SYTLFPAYFSSRKRYGVAANNKQVKDMYLIPLGATDKIPHLV PPDGPGLEBLHRPNLLGLIIRQLKRRQHSACASTSHIAETPESA PPIALPPDKKSKIEVSTEAPEEENDFNSFTTVLHKQRNKPQ NLQEDLPTAVEPLMEVTKQEPKPLRFLPGVLIGWENQPTTLBL ANKPLPVDDILQSLGTTGGVYDQ\AQSVMEQNTVKIIPFLNEQ TNSKIBKIDNVEVTDGKNKIKVKVDNISESTDKSARIETSVVG SSSISAGSLTSLSLRGKPPDVSTEAFLTNLSIQSKQETVESKE KTLKRLQEDQENNLQDNQTSNNSPCRSNVGKGNIDGNVSCSEN IAVANTARSPQFINLKRDPQAAGRSQFVTTSESKDGDSCRNGEK HMLPGLSHNKEHLEQINVEEKLCSAEKNSCVQQSDNLKVAQNS PSVENIQTSQAEQAKPLQEDILMONIETVHPFRGSAVATSHFE VGNTCPSEFPKSKITFTSRSTSPRTSTNFSMPRPOQPNLOHLKS SPPGFPFPFPNFPQSMFGFPFHLPPPLPPPGFG\FA\QNPM VPWFPVV\HLP\GOPQRMGGLSQAASRYIGPQNFYQVKDIRRPE RRHSDPWGRDQQLDRPPNRGKGDQRQFYSDSHHLKRERHEKE WEQESERHRRDRSQDKDRKSRREGHKDKERARLSHGDRGTD GKASRDSRNVDKPKPKSEDEYBKDKEREKSKHREGEKDRDRYH KDRDHTDRTKSKR </p>
5952	3226	639	<p> PPARRARDLPRALSMEARPSSGWNALCRLL\LVTL\AFLIF ASDACKNVILHVPKSLDAEKLVGVRNLIKCEFTAAHLHSSDDPF QILEDGSVYTTNTILLSSEKRSFTILLSNTENQEKKKIFVFLKH QTKVLKKRHTKEKVLRRARRWAPIPCSMLENSLGPFLFLQOV QSDTAQNYTIIYSIRSGVDQEPNLFYVERDTGNLYCTRPVDR BQYESFRIIAPATTGQVTPPELPLPIKIEDENDNYPIFTEBT YTFIIFENCVRGTTVGVCATDKDEBDTMTLTKYSIIGQVPPS PTLFSMHPTTGVIITSSQLDRELIDKYQLKIKVQDMGQYFGL QTTSTCIINIDVNDHLPTFTRTSYVTSVEENTVDVEILRVTV DKDLVNTANWRANYTILKGNENGFKIVTDAKTNEGVLCVVKPL NYEKKQMILOIGVVRAPFSREASPRSAMSTATVTNVNVEDQDE GPECNPIQTVRMKENAEVGTSTNGYKAYDPETRSSSGIRYKKL TDPTGWTVIDENTGSIKVFRLDREAETIKNGIYNITVLASDQ GRTCTGLGIILOVDVNDNSPFIKKTVIICKPTMSSAEIVAVDP DEPIHGPPFDLSLESSTSEVQRMWRLKAINDTAARLSYQNDPPF GSYVVPITVRDLGMSVTSILDVTLCDCTENDCTHRVDPRIIG GGVCLGKNAILAILLGIALFFCILFTLVCGASGTSKOPKVIPOD LAQONLIVSNTRAPGDDKVYSANGFTTQTVGASAGVCGTVGSG IKNGGQETIEMVRGGHQTSESCRGAGHHHTLDSCRGGHTEVDNC RYTYSEWSHFTQPRLGESIRGHTLIK </p>
5953	330	811	<p> PII CNPDGWWYWKQSEISKESQEMDARPKLDLQFKQQTIK LCIGNITNKKGGASKPRPTARGGLSLPPPPGKVTIPPPSS/V KLPSTNHVTPPSIPKSNHGGSDADILLDLSDPAPVTPAPTPTS VSNLWGFSTASSSVPNQAPQPSNWWQF </p>
5954	32	2130	<p> PPPPPPKLANMADLEAVLADVSYLMAKSKATPAARASKRIVL PEPISRSVMQKYLARNEITFDKIFNQKIGFLFKDFCLNEINE AVQVKFYEBIKBYEKLNDNRDLCSRQIYDAYIMKELLSCH </p>

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			PFSKQAVEHVQSHLSKKQVSTLFPQYIEICEISLRGDI FQKFM ESDKFTRPCQWKNVNLNIHLTMNEFSVHRI IGRGGPEVYGCRR ADTGKMYAMKCLNKKRIKMKQGETLAINERIMLSLVSTGDCPFI VCMTYAFHTPDKLCFILDLMNGGDLHYHLSQHGVSSEKEMRFYA TEILGLEHMHNRVYVYRDLKPANILLDRHGHARIS\DLGLACD FSKKKPHASVGTGMYAPEVLQKGTAYDSSADWFLGCMFLFKLL RGHSPPFRQHKTKDKHEIDRMFLTVNVLEPDTFSPELKSLEGLL QRDVSKRGLGCHGGGSGQEVKEHSFFKGVQWQHVYLQKYPPLIPP RGEVNAADAFDIGSFDEEDTKGIKLLDCDQELYKNFPLVISERW QQEVTETVYEAVNADTDKIEARKKRAKNQGLGHEEDYALGKDCIM HGYMLKLGNPFLTQWQRRYFYLFPNRLWRGEGESRQNLITMBQ ILSVRETQIKDKKCILFKIKGGKQFVLQCESDPEFVQWKEELNE TFKEAQRLLRRAPKFLNKPRTGTVELPKPSLCHRNENGL
5955	1726	444	KREREPRLAVCLRYPSAYESSPGTELRECGLCRSGQRFADCR PANRQDVLGWINLQVLTQKDPKLTGRLDHGTRTAFIHRREQ VWKRGINIWRDVLGVLGVLNIEIANSEEEVFWVKTAGMALALCR WASSLHGSLFPHLSLRSEDLIAEFAQVTNWSSCCLRVFAWHPH NKFAVALDDSVRVYNASSTIVPSLKHRLQRNVASLAWKPLSAS VLAVACQSCILEWTLDPSTLSTRPSSGCAQVLSHPGHTPVTSLA WAPSGGRLLSASPVDAAIRVNDVSTETCVPLPWFRGGGVNLLW SPDGSKILATTPSAVFRVWEAQMTCEBWPFLSGRCQTGCWSPD GSRLLFTVLGEPLIYSLSPPERCGEGK\ALEVQSQORLWQICL RQYRHMVRRGLGERLTPWSGTPVGNVWLCL
5956	1705	139	GVGVRGARAMATVQEKAAALNLSALHSPAHRPPGFSVAQKPPGA TYVNSSIINTLQTVQVVKRRRHLKRHNDGCVGSEAVDVIFSHL IQNKYFGDVIDIPRAKVVRVCQALMDYKVFVAVPTKVFGDKKPT FEDSSCSLYRFTTIPNQDSQLGKENKLYSPARYADALFKSSDIR SASLEDLWENLSLKPANSPPHVNISATLSQVINEVWQEEITIGRL LQLVDLPLLDLSLLKQEAVPKTPQPKRQSTMVNSSNYLDRGILK AYSQSDQDEWLSAAIDCSEYLPDQMVVVISRSFPEQPDRDVLK ELLFDAIGRYSSREPLNLHSDVHNGIAELLVNGKTEIALEAT QLLLKLLDPQNRREPRRLLYPMAVAANPSEFKLQKESDNRMVVK RIFSKAIVDNKNLSKGTDLVLVFL\MDHQKDVFKIPGTL\HKI VS\VK\LMAIQNGRDPNRDAGYIYQCRIDQRDYSNNTKTTKDE LLNLLKTLDEDSKLSAKEKKK\LLGQFYKCHPDIFIEHFGD
5957	1479	451	ELQVAVAMDTLDEVVVKPKTKRAKRELEKREPKLNENIKNAMLIK GGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQTSLEFF SKKSDCSLFMFGSHNKKRPNNLVIGRMYDYHVLDMIEIGIBNPF SLKDIKNSKCPGKTPMLIFAGDDFDVTEYRRLKSLIIDFPFG PTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLKKSQCRTPRIE LERMGPSLDLVLRRTHLASDLYKLSMKMPKALKPKKKKNI SHD TFGTTYGRIHMQKQDLSKIQTRKM\KGLKKRPAERITEDHEKKS KRKKKLMELSQPLLPHCVLLKRIKHQSIQSFL
5958	1	3138	AAALGMLLNFPACQAFNL DVEKLT VYSGPKGSYFGYAVDFHID ARTASVLVGAPKANTSQFDIVEGGAVVYCPWPAEGSAQCRQIPF DTTNNRKIRVNGTKEPIRPSNQWFG\ATVKA\HKGKSCGFVAP LLFTWRNFKPTPEKGPVGTCTYVAIQNFSAXAEFSPCGNSNADP EGQGYCQAGFSLDFYKNGDLIVGGPGSFYWGQVITASVADI IA NYSFRDILRLKLAGRKQTEVAPASYDDSYLGYSVAAAGEFTGDSQQ ELVAGIPRGAQNPYVS IINSYDMTFIQNFTEQMASYFGYTVV VSDVNSDGLDDVLVGAPLFMEREFESNPREVGQIYLYLQVSSLL FRDPQILITGTETPGRFGSAMAHLDLNQDGYNDIAIGVPFAGKD QRGKVLIIYNGKNDGLNTPPKPKCQGVNASHAVPSGFGFTLRGD SDIDKNDYDPLIVGAPGTGKVAVYRARPVVTVDQQLLHPMI IN LENKTCQVPDSMTSAACPSLRVCASVTGQSIANTIVLMAEVQLD SLKQKGAIKRTFLDNHQAHRVPLVIRKQKSEQCQDFIVYLRD ETFRDKLSPINISLNYSLDESTFKEGLEVKPIILNYYRENIVSE QAHILVDCGEDNLCVPLKLSARPDKHOVIIGDENHMLI INAR NEGEGAYEAEFLVMIPEEADYVGIERNKGFRLSCETKMNVT RMVVCDLGNFMVSGTNYSGLRFAVPRLEKTNMSINFDLQIRSS NKDNPSNFSVSLQINTTAVAQVEIRGVSHPPQIVLPINWPEER

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			EPHKEEFVGLVEHIYELHNTGPFSTISDTLLEVGWPFPSARDEFL LYIFHIQTLGLPQCQPNPNINPQDIKPAASPDTELSAFLRNS TIPHLVRKRDVHVVEFHRQSPAKILNCTNIECLQISCAVGRLEG GESAVLKVESRLWAHTFLQRKNDPYALASLVSFEVKKMPVTDQP AKLPESIAIKTSVIWATPNVSFSLPLWVILAILLGLLVLAAIL TLALWKKCGFFDRARPPQEDMTDREQLTNDKTEPA
5959	1	1166	GTSGYAAQQLPSLLKEREFLHNTGPFSTISDTLLEVGWPFPSARDEFL NTLFLVVDVQTSQITKIPILKDRPEGGVTQCGGTHAIELNPSRT LLATGGDNPNLSAIYRLPTLDPVCGDGHKDWIPSLAWISDTM AVSGSRDGSMLWEVTDVLTSDARHNSRVVPYAHITHKALK DIPKEDTNPDCNKVRALAFNNKNKELGAUSLDGYFHLWKAENTL SKLLSTKLPHYCRENVCLAYGSEWSVYAVGSAHVSLDPPQPSY NVKSCSRERGSIRSVSFYEHITTVGTGQSLLFYDRAQRFL EERLSACYGSKPRLAGENLKI/TG/KGWLNHDETWRNYFSIDIF PFNAVYTHCYDSSGTLFVAGGPLPSGLHGNAYGLNS
5960	2853	870	FVWSGGPRPRRGPAGAGAAHLSDPWMTPTGTANRATNPINKE LDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQWEAIOALT VLETCMKSCGKRHFDEVGKFRFLNELIKVVSPLYGSRSTSEKVK NKILELLYSWTVGLPEEVKIAEAYQMLKKQG\IVKSDPKLPDDT TFPLPPPRPKNVIPEDEBKSKMLARILLKSSHPEDLRAANKLIKE MVQEDQKRMEKISKRVNAIEVNNNNVLLTEMVMSHSQGGAAAG SSEDL\MKEL\YORCERMRPTLEPTGRVDTEDND\BALAEILOA NDNLTVQINLYKQVLRGEVNGDATAGSIPGSTSALLDLSGLDL PPAGTTPAMPTRPGQASPEQPSASVSLDDELMSLGLSDPTP PSGSLDGTGWSFQSSDATEPPAPALAQAPSMESRPPAQTSLP ASSGLDDLDLLGKTLQQLPPESQVVRWEKQQTTPRLTLRLDQ NKSSSCSSPSSSATSLHTVSPEPPRPQPPVPTSLASITVP LESIKPSNILLPTVVDQHGFRILFHFARDPLGRSDVLVVVSM LSTAPQPIRNIYVQSAVPMKVMKVLQPPSGTELPAPNPIVHPSA ITQVLLANPQKEKVRRLRYKLFTMGDQTYNEMGDVDQPPPPET WGLS
5961	198	3147	SGEPRPEPGNMATCIGEKIEDPKVGNLLGKGSFAGVYRAESHT GLEVAIKMIDKKAMYKAGMVQVQNEVKIKHQLKHPISILELYN FEDSNVYVLVLEMCNGEMNRYLKNRVKPFSENEARHFHQIIT CMLYLHSHGILHRDLTSLNLLTRNMNIRIADPGLATQLKMPHE KHYTLGCTPNYISPETATRSAGLESVDWSLGCMTFTLLIGRPP FDTDTVKNTLKNVVLADYEMPTFLSIRAKDLIHQLLRNPADRL SLSSVLDHPPMSRNSSTKSKDLGTVEDSIDSGHATISTAITASS STSISGSLFDKRLILGQPLPNKMTVPKKNKSTDFSSSGDGNS FYTQWGNQETSNSGGRVQDAERPHSRYLRRAYSSDRSGTNS SQSQAKTYTMRCHSAEMLSVSKRSGGKNEERYSPDNNANIF NFFKEKTSSSSGSFERPDNNQALS NHLCPGKTPFPFADPTPQTE TVQWFGNLQINAHLRKTTREYDSISPNRDFQCHPDLOKTSKNA WTDTEVKKNSDASDHAHSVQQTNTKMTALHSKPBIQQECVF GSDPLSEQSKTRGMSPPWGYQNRTLRSITSPLVAHRLKPIRQKT KKAVVSILDSEVVCVELVKEYASQETVKEVLQISSDGNITITYY PNGG\RGFPLA\DRPPSP\DNISR\YSF\DNLPKYWRKYQYA SRFVQLVRSKSPKITYFTRYAKCILMENSFGADFEVNFYDGVKI HKTEDFIQVIEKTKSYTLKSEVNSLKEEIKMYMDHANRGRH ICLALESIISEERKTRSAFPFPIIGRKPGSTSSPKALSPPPS VDSNYPTRDRASFNRMMHSAASPTQAPILNPSMVTNEGLQLT TASGTDISSNSLKDCLPKSAQLLKVVFVKNVGNATO\LTSGAVN VQFNDGSQLVVQAGVSSISYTSFNGQ\TTR\YGENEKLDPYIKQ KLQCLSSILLMPSNPTPNFH
5962	20	2447	RVCSSASTASQAVMADAWERTRLAADFQRAQFAEATQRLSER NCIEIVNKLIAQKQLEVVHTLDGKEYITPAQISKEMRDELHVRG GRVNIQVLDQVINVDLIHTBNRIGDIKSEKHVQLVLGQLIDEN YLDRLABEVNDKLQESGQVTISELCKTYDLPGNFLTQALQORIG RIISGHIDLNRGVIFTEAFVARHKARIRGLFSAITRPTAVNSL ISKYGFQRLLYSVLEELVNSGRRLGTGVGGRODKAVFVFDIYS RTQSTWVDSFFRONGYLEFDALSRLGIPDAVSIIKKRYKTQLL

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			FLKAACVGGQLVDQVBAASVEBAISSGTWVDIAPLLPTSLSVEDA AILLQQVMRAFASKQASTVVFSDTVVSEKF\INDCTELPRELMH QKAEMKNNPVLITERDLKQISTLESVSTSKDKKDERRRKA TEGSGSMRGGGGNAREYKIKKVKKKGRKDDSDDESQSSHTGK KKPEISFMPQDEIEDFLRKHQDAPREFISLAELYIKPLNKTY LEVVRVFMSTTTSASGTGRKRTIKDLQEEVGNLYNNIRLFEKG MKFFADDTQAALTKHLKSVCTDITNLIFNPLASDLMAVDDPA AITSEIRKKILSKLSEETKVALTKLHNSLNKSIEDFISCLDSA ARACDIMVKRGDKKRERQILFQHRQALAEQLKVEDPALILHLT SVLLQFPSTHMLHAPGRCPVQIIAFLNSKIPEDQHALLVKYQG LVVKQLVSQSKKTGCGDYPLNNELDK3QEDVASTTRKELQELSS SIXDLVLKSRKSSVTRR
5963	62	1130	PWNPQDFPGNRGLMG\QKGETGPP\GQQGKKGAPGMP\GLMGSN GSPGQPGTPGSGKSGKBPFIQGMPCASGLKGPATGSPGEPGY MGLPGIQKKGDKGNQGEKGIQGGKQNGRQGIQPGQQGIQGHG AKGERGEKGPVGRGAGSGESGVDGLMGAPGPKGQPDGPGQ GPPGLDGKPGREFSEQFIRQVCTDVIRAQLPVLLQSGRIRNCDH CLSQHSGSPIPGPPGPIGPEGERGLPGLPGRDGVPLVGVPGRP GVRGLKGLPGRNGEKGSGQCFYVPGEGPPGPPGPGPGISKEG PPGDPGLPGKDGDKGKPGIQGQPGPPGICDPSLCFSVIARRDPF RKGPNTY
5964	3	2147	SCRTRGRLSPLOPRBAGSSRGRARSEPFRPGMEEACQVQTTK RGDPHELRNIFLQYASTEVDGERYMTPEDFVQRYLGLYNDPNSN PKIVQLLAGVADQTKDGLISYQEFLEAFESVLCAPDSMFIVAFQL FDKSGNGEVTPFNVKIEFGQTIHHHIFPNWDCEFIRLHFCHNR KHLNLYTEFTQFLQELQLEHARQAFALKDKSKSGMISGLDFSDI MVTIRSHMLTFVFEENLVSAAGGSIHQVSPSYFNAPNSLLNM ELVRKIYSTLAGTRKDAEVTKEEFAQSAIRYQATPLEIDILYQ LADLYNASGRITLADIERIAPLAEGALPYNLAEQRQSPGLGR PIWLQIAESAYRFTLGSVAGAVGATAVYPIDLVKTRMQRQGGG SVVGLMYKNSPDCFKKVLRYEGFFGLYRGLPQLIGVAPKAI KLTVNDFVRDKFTRRDGSPVLPVAVLAGGAGGSGQVIFTNPLEI VKIRLQVAGBITTGPRVSALNVLRLDGIPLGKAKACFLRDIP FSATYFPVYAHCKILLADENGHVGGNLNLAAGAMAG\VPAAALV TPADVIKTRLQVAARAGQTTYSGVIDCFRKIL\REBGPFAFWG TAARVFRSSPQPG\VTLVTYELLQRGFYIDFGGLKPGASEPTPK SRIADLPPANPDHIGGYRLATATFAGIENKFGLYLPKPKSPSVA VVOFKAATAATQ
5965	1	1498	MVTWLYRFLPTSNMAAKLRSLPPDLRLQFWLHARLQKCFLSRG CGSYCAGAKASPLPGKMMAGLMCGRRELLRLQSGRRVHVSAGP SQWLKGLPLTTRLLFPAAPCCCRPHYLFLAASGPRSLSTSAISFA EVQVQAPPVVAATPSPTAVPEVASGETADVQTAEQSFALQL GSYTPVGLIQNLLEFMBVDLGLPWGATAACTVFARCLIFPLIV TGQREARAIHNLPEIQFSSRIREAKLAGDHIYYKASSEMAL YQKKGKIKLYKPLILPVTOAPIFISFFIALREMANLPVPSLQTG GLWFPQDLTVSDPIYILPLAVTATMAVLELGAETGVQSSDLQW MRNVIRMMPLITLPTMHFTTAVFMYWLSNLSLVQVSCLRIP AVRTVLKIPQRVVDLKLPPREGFLESFKKGWKNAMTROLRE REQMRNQLELAARGPLRQTPTNPLLQPGKDNPNIPSS\SSS SSKPKSKYPWHDITLG
5966	102	1925	RSKQVMARLTKRQADTKATQHLWAAIEIIRNQQLIANIDRITK YMSRVHGMHPKETTRQLSLAVKDGLIVETLVGCKGSKAGIEQR GYWLPGBEIDWETENHDNYCFRCHLPGEVLI CDLCFRVYHVKCL SDEFRLRDS SSPWQCPVCRSIRKKNTNKQEMGTYLRFIVSRMKE RAIDLNKKGKDKHMPYRRLVHSAVDVPTIQEKVNEGKYSYRE FKADAQILLHNTVIFYGADSEQADLARMLYKDTCHEL\DELQLC KNCFYLANARDNWFCTPCIPNHELDWAKMKGFGFWPAKVMQKE DNQVDVRFPGHHQRANIPSENIQDITVNIHRLHVKRSMGWKA CDELELHQRLREGRFWKSKNEDRGEERAESSISSTSNEQLKVT QEPRAKGRRNQSVPEPKKEPEPETEAVSSSQEIPTMQPIEKV SVSTQTKKLSASSPMLERSTQTTNDGVCQSMCHDKYTKIFNDF

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5967	102	1925	KDRMKS DHRKRETVVREALEKLRSEMEERKQAVNKAVANMQG EMDRKCKQVKEKCKEEFVEEIKKLATQHKQLISQTKKKQWCYNC EKEAMVHCCWNTSYCSIKCQEQEHWAHEHKRTCRKR RSKQVMARITKRRQADTKATQHLWAATETIRNQRQIANIDRITK YMSRVHGMHPKETTRQLSLAVKDLIVETLTGCGCKSGAGIEQB GYWLPGEIDWETENHDWYCFECHLPGEVLICDLCPRVYHSKCL SDEFRLDSSSPWQCPVCRSIIKQNTNKQEMGTYLRFIVSRMKE RAIDLNKKGKDNKHPMYRLVHSAVDVPTIQEKVNEGKYRSYEB FKADAQILLHNTVIFYGADSEQADIAIMLYKDTCHL\DEBQLC KNCFYLANARPDNWFPCYPCIPNHELDWAKMKGFGFWAKVMQK DNQVDVRFPGHHQRAWIPSENIQDITVNIHRLHVKRSKMGWKA CDELKILHQRFLREGRFWSKNEBDRGEAEASSISSTSNBQLKVT QEPRAKGRNRNQSVPEPKKEPEPETEAUSSSQBIPMPQPIEKV SVSTQTKKLSASSPRMLHRSQTNDGVCSMCHDKYTKIFNDF KDRMKS DHRKRETVVREALEKLRSEMEERKQAVNKAVANMQG EMDRKCKQVKEKCKEEFVEEIKKLATQHKQLISQTKKKQWCYNC EKEAMVHCCWNTSYCSIKCQEQEHWAHEHKRTCRKR
5968	81	1288	VRFPREGGAPPTVLTGPGQGVFLGPQPGSEPDIPARGQPHPP RPVGVSTSAQAQVQPPAMERRRLALGLGCLLAGTSLVWVYL ENWLPVSYVPYYLPCPEIFNMKLYHKREKPLQPVVWSQYQPKL LEHRPTQLLTLPWLAPIVSEGTENPELLQHTYQPLNLTIGVT PAVGN/HPLESAEEFFMRGRVRYHYIIFDNPAAVPGVPLGPHRL LSSPIQGHSHWEETSMMRMETISQHIKRAHREVDYLFCLDVD MVFRNPWGPETLGDVAAIHPSYAVPRQOPPYERRRVSTAFVA DSBGDFYGGAVFGGQVARVYEPTRGCHMAILADKANGINAAWR EESHLNRHFISNPKSVLSPEYLWDRKPPPSLKLIRFSTLDK DISCLRS
5969	1126	503	DVGFNIKRRKCDLVFLESPRKPSGRDRAPKQRTIAANKCLC TGVREGEPPS/TTSQKVKAGRDFTYLIIVLFGISITGGIFYTI FKELFSSSSPSKIYGRALBKCRSHPEVIGVFGESVKGYGEVTR GRRQHVRFTEYVKDGLKHTCVKFYIEGSEPGKQGTVAQVKENP GSGEYDFRYIFVEIESYPRTIITIEDNRSQDD
5970	316	4712	SQDNIGHRLLOKHWGLGQGLGKSLQGRDTPIPVVKYDVUMGM RMEMELDYAEDATERRRVLEVEKEDTEBLRQKYDYVDKEKALA KALEDLRANFYCELCDKQYKHQEFDNHINSYDHAHKRLKDLK QREFARNVSSRSRDKKQKALRRLHHLAERKQABCAPGSGP MPKPTTAVDEEGGEDDKDESATNSGTGATASCGLGSEFSTDKG GPFTAVQITNTTGLAQAGLASQGISFGIKNNLTPLQKLGVSF SFAKAPVVKLESIASVFKDHABEGTSEDGTPKDEKSSDQGLQKV GDSGSSNLDGKKEDEDPQDGGSLASTLSKLKRMKREAGAGATE PEYTHYIPPAHCKVKPNFPFLFMRASEQMDGDNTHPKNAPES KKGSSPKPKSCIKAASQGAETVSEVSEQPKETSMTEPSEPGS KAEAKALGGDVSDQSLESHSQKVSETQMCESNSSKETSATPA GKESQEGPKHPTCPFFPVLSKDESTALQWPSSELLIFTKAEPSIS YSCNPLYPDFKLSRNKDARTKGTETPKDIGSSSKDHLQGLDPGE PNKSKEVGGEKIVRSSGGRMDAPASGSACGLNKQEPGGSHGSE TEDTGRSLPSKKERSGKSHRHKKKKHKSSKHKKHKADETEK SSKASGEKSKRKKRKKRKNKSSAPADSERGPKPEPPGSGSPA PPRRRRRAQDQSRSLPABEGSGGKDEGGGSSSQDHGGRKH KGELPPSSCQRAGTKRSSRSSHRSQPSGDESDDASSHRLHQ KSPSYSEEEKEDSGSEHSRSRSRSGRRHSSHRSSRSYSSSS DASSDQSCYSRQSYSDSYSDYSDRSRHSKRSHSDSDSYAS SKHRSKRHYSSDDYSLSCSQSRSSRSHTRESRSSRGRSRS SSCSRSRSKRSSRTTAHSWQSRSSYSRDRSRSTRSPSQSGSR KRSWGHESPERRHSGRRDPIRSKIYRSQSPHYFRSGRGEQPGK DDGREGDSDKATGPPSQNSNIGTGRGSEGCSPEDKNSVTAKLL EKIQSRKVERKPSVSEVQATPNKAGPKLKDPQGYFGPKLPPS LGNKPVLPPLIGKLPATRKPNKKCEGSLRCEBQEQSETEBGP GSSDALFGHQFP\SEETGPLLDPPPEESKSGEVTADHPVAPLG PPAHFDCLGDPITSHNYLDDPDGNTLESLSOSSQGPVSSSL LPAPDLRHFPSTAPPSPGDPISBSTDGAEDA\SLAPLESQPIITP

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			<p>TPREMEKYSKIQQAQQHIQQQLLAKQVKAFFASAALAPATPAL QPIHIQQPATASATSIITTVQHALLQHAAAAAAGIHPHPHPQ PLAQVHHIPQPHLTPIISLSHLTHSII PGHPATPLASHPIHIIPA SAIHGPGFTFHPVPHAAALYPTLLAPRPAANAATLHLHPLHPI FSGDQLQHPPSHGT</p>
5971	53	2149	<p>SFLYFVGVDMDNPIGNWDRFDGVLCSFACVESTILLHINDI I PRESVTQERRRPPKLAPMSRGVGDGSSSHNKPKATGSTSDPGMNRN RSELYTTLNGSSVDSQPSKSKNTWYIDEVAEDPAKSLTEISTD FDRSSPPLQFPVNSLTENRFHSLPFSLT/KMPNTNGSIGHSPL SLSAQSVMEELNAPVQESPPLAMPPGNSHGLEVGSLEAVKENP PFYGVIRWIGQPPGLNEVLAGLELEDBCAG\CTDGT/REGTRY FTCALKKALFVKLKSRCPSRFASLQPVSNQIERCNSLAINEAY LSEVVEENTPTQKWEKGLIMIG\KKGIGQHYNSCYLDSTLF CLFAPSSVLDTVLLRPKEKNDVYYSSETQELLRTRIVNPLRIYG YVCATKIMKLRLKLEKVEAASGFTSEEDKPEEFLNLPFHILRV EPILLKRSAGQKQDCYFYQIFMBKNEKVGVPITIQQLLEWSPIN SNLKFAEAPSCLIIQMFRFGKDFLKKIIPSLRLNITDLEDT PROCRICGGLAMYECRECYDDPDISAGKIXQFCTCNTQVHLHP KRLNWKYNPVSLPKDLPDWDWRHGCIPQNMELFAVLCIETSHY VAFVYQKDDSNLFFDSMADRDGQNGFNIPQVTPCPEVGEYL KMSLEDLHSLDSRRIQGCARRLLCDATVVPCTQ9PTMSLYK</p>
5972	440	1761	<p>ILLAGSPSPRDQCSQRQSSGGDKELVTRGCTFSTAVVSPSAMTO EPFREBLAYDRMPTLRRGRQDPASYAPDAKPSDLQLSKRLPFCF SHKTWVFSVLMGSCILVTSGFSLYLGWVFPAMDYLRCAGSCI PSAIVSFTVSRNNANVIPNFQILFVSTFAVTTTCLIWFGCKLV NPSAININFNLI LLLLLLELLMAATVI IAAARSSEEDCKKKGMS DSANILDEVPPARVLKSYSVVBVLGISAVALGGI IALNVDDSV SGPHLSVTFFWILVACFPASATASHVAECNKLVEVLIAISSL TSPLLFATAGYLSFSIMRI VEMFKDYPPAIKPSYDVLLLLLLV LLLQA/GPQHCHRPVRALQGQCAAGCTLGHPERPAGAPGWGG GQEPPEGVROGESLESRRGANGFVTPRRGNRVAAPSLAPGMETH NP</p>
5973	65	2007	<p>NGDGKDLFGHIWAWRSNGI ISNFRSPHAGMAEDEPDAKSPKTG GRAPPGGABAGEPTTLQRLRTISKAVQNKVEGILQDVQKPSD NDKLYLYLQLPSGPTTGDKSSSEPTSLNEEYMYAYRWIRNHLRE HTDTCPLKQSVYDAYRKYCSELAACRPLSTANFGKIIREIFPDI KARRLGGRGQSKYCYSGIRKTLVSMPLPLGLDLKGSSEPMGP EVTAPRDELVEAACAL/CDNAERILKRSFSSIVEVARFLLQOH LISARSAHAHVLAAMGLAEDEHAPRERSKPKNGLENPEGGAH KKPERLAQPPKOLEARTGAGPLARGERKKSVESSARGANNLQV NALVARLPLLLPRAPRSIYPIIPVSPPI LAPRLSSGALKVATLP LSSRAGAPPAAPV IINMILPTVPALPGPGPGGRAPPGLTQPR GTENREVGIGGDQGPDKGVKRTAEVPVSEAGQAPPAKAKQD IEDTASDAKRKRGRPLKSGSGSGERNSTPLKSAAMESAQSSRL PWETWGS GGEGNSAGGAERPGPMGEAEKGAVALAQ\QGDGTVSK GGRGPGSQHTKEADKIPLVPSKVSVIKGSRSQKEAPFLAKGEV DTAPQGNKDLKEHVLQSSLSQEHKDPKATPP</p>
5974	4293	2200	<p>LGLQMHTTSGRIHQAMVTSINEDNESVTVEWENGDTKKG\RID LESIFSLNP\DL\VPDGETEPPSP\ETPPPPASSAKVNKIVNRR TV\ASIKNDPPS\RDNRVVGSAARAPSQFPEQFSSAQNGSV\S DISPVQA AKKEFGPPSRKSN CVKEVRKLOEKREKRLQOQELR BKRAQDV DATNPYBIMCMIRDFRGSLDYRPLTTADPIDEHRIC VCVRKRPLNKKETQMKDLVITIPSKDVVMVHEPKQKVDLTRYL ENQTFRFDYAFDDSAFNEMVYRFTARPLVETIFERGMATCFAYG QTGSGKTHTMGGDFSGKNQDCSKGIYALAAEDVFLMLKKPNYKK LELQVYATFFEIYSGKVFLLNRKTLRVLEDGKQVQVVGLOE REVKCVEDVLKLDIGNSCRTSGQTSANAHSSRSHAVFQILLRR KGLHCKFSLIDLAGNERGADTSSADRQTRLEGAEINKSLALAK BCIRALGRNKPHTPPFRASKLTQVLRDSFIGNSRTCMATISPG MASCENTLNTLRYANRVKELTVDP TAAAGDVPRIMHHPNQI\DD LBTQWGVGSSPORDDLKLLCEQNEEVSQQLFTTHEAVSQMVE</p>

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5975	4293	2200	EEQVVEDHRAVFQESIRWLEDEKALLEMTTEVDYDVSATQLE AILEQKIDILTELRLDKVKSFRALQEEQASKQINPKRPRAL LGLQMHITSGRIHQAMVTSLNEDNESVTVENIENGDTGK\EID LESIFSLNP\DL\VPDGRIEPSP\ETPPPPASSAKVNKIVKNRR TV\ASIKNDPPS\RDNRVVGSAARPSQFPQFSSAQQNGSV\S DISPVQAAKKEFGPPSRKSNCKVEKLEKREKRRLLQOQLR EKRAQDVDAINPNYEIMCMTRDFRGSIDYRPLTTADPIDEHRIC VCVRKRLNKKETQMKDLVDITIPSKDVVMVHEPKQKVDLTRYL ENQTFRFDYAFDDAPNEMVYRFTARPLVETIFERGMATCPAYG QTGSGKTHMTMGDFSGKNQDCSKGIYALAARDVFLMLKKPNYK LELQVYATFFETISGKVFDDLNKRTKLRVLEDEGKQVQVVGLE REVKCVEDVLKLDIGNSCRTSGQTSANAHSSRSRHAVFQILRR EGKLHGKFSLLDLGNERGADTSSADROTRLEGBEINKSLLALK ECIRALGRNKPHTPPFRASKLTQVLRDSFIGENSRTCMATISPG HASCENTLNTLRYANRVKELTVDPTAAGDVPRIMHPPNQI\DD LETQWGVGSSPQRDDLKLLCQNEEVSQPLFTFHEAVSQMVM EEQVVEDHRAVFQESIRWLEDEKALLEMTTEVDYDVSATQLE AILEQKIDILTELRLDKVKSFRALQEEQASKQINPKRPRAL
5976	20	2949	VHHLHLTRVSVVNLDIILRIAQQMGITLNLVLG\LKRA\LEF PEVSWMEVKDPMKGAULTNGKYAIPITIDA\BAYAGKKEKPP FLPEPSSSSSEEDDPIPELLECLICKDINTDAVVPCCGNSYCD ECIRALLESDEHTCPTCHQNDVSPDALANKFLRQAVNNFRNE TGYYTKRLRKQLSPPPPIPPRPLIQRLQPLMRSPISRQDDPL MIPVTSSSTHAPSISLTSNQSLLAPPVSGNPPSSAPAPVDDIT ATVISVHSEKSDGPFRRSDNKLPAALASEHSGTSSIAITA LMEKGYQVPVLGTPSLGQSLHGLIPTTGPRINTARPGGG RPGWEHSNKLGYLVSPQIIRRGERSCYRSINRGRIHSERSQRT QGSLPATPVFVPPPPPLYPPPHTLPLPPGVPPPPQSPQFPP QGP\PPAGYSVPPGFPAPANLSTPWVSSGVQTAHSNTIPTTQ APPLSRREFPYEQRLKEEEKKSKLDEFTNDFAKELMEYKKIQ KERRRSFSSKSPYSGSSYSRSTYSKSRSGSTRSRYSRSES RSHRSYSRSPPYPRRGKSRNYSRSHSGYHRSRSPPYR RYHSRSPQAFRQSPNKRNVPGETEREFNRYREVPPPYDM KAYYGRSVDPRDPPEKERYREWERKYREWKYKGYAAGAQR PSANRENFSPERFTPLNIRNSPPTGRREDYVGGQSHRSRNIGS NYPEKLSARDCHNQNTKSKKESSENAFGDGGKGNKHKHRRR KGESEGLNPELLETSSRSREPTGVBENKTDLSFVLPSSRDDAT PVRDEPMDABSITFKSVSEKDKRRDKPKAKGDKTRKNDGSAV SKKENIVKPAKGPQEKVDG\DVRLDLLNL\QLKKPKEBTPKDL TILNHLPLRRMKSL\EPPEKLTINQOK\TPRNKTSQRGKSE BGLFQRCQIRKANN
5977	1363	1336	PLEDRGQVLSHFQCLSLHSINHLHPGAGVAAGPATGN/REYLT PVLKESKPKETGVITPEEFVAAGDHLVHHCPTWQWATGELEKVK AYLPTGKQPLVTKNVPCYKCKQMEYSDELEAIIEEDDGDGGWV DTYHNTGITGITAVKEITLENKDNIRLQDCSALCERBEDEDEG EADMBEYEESSGLETDATLDRKIVRACKAKTDAGGEDAILQ TRTYDLYITYDKYYQTPRLWLFQYDBQROPLTVHMYEDISQDH VKKTVTIENHPLPPPPMCSVHPCHRAEVMKKIETVAEGGGEL GVHMYLLIFLKFVQAVIPTIEYDYTRHFTM
5978	160	3213	RDGARRWGGCQSPLTWAPGFYRRFDLATSGRRRLRGQTAEPAQRG RPRREPAMDEQSVESIAEFRCFCIMEKLRDARLCPHCCKLCC FSCIRRWLTEQRAQCPCRAPLQLRLVNCRWAEVTTQQLDTLQ LCSLTKEEENKDKCENHHEKLSVFCWTCCKKICHCQCALWGGMH GGHTFKPLAETIYBQHVTKVNEEVAKLRRKLMELISLVQEVERNV EAVRNAKDERVREIRNAVEMMIARLDQKXKLITLMGQKTSIT QETELLESLLQVEHQLRSCSKSELISKSSEILMMFQQVHRKPM ASFVTTTPVPPDFTSELVPSYDSATFVLENFSTLRQADPVVYSP LQVSGLCWRLKVYPDNGVVRGYLVSFLSAGLPETSKYEYR VEMVHQSNDPTKNIIREFASDFEVGECWGYNRPFRLLLANEG YLNQNDTVILRPQVRSPTFFQKSRDQHWYITQLEAAQTSYIQ INNLERLTIELSRTQKSRDLSPPDNHLSQNDDALETRAKKSA

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			<p>CSDMLLER\GPYSAS\VREAKEDEEDEEIKQEDYHRELSGDGL DLDLVYEDEVNQLDSSSSASSTATSNTEENDIDEETMSGENDV BYNNMELEREGELMEDAAAAGPAGSSHGIVGSSSRISRRLCSA ATSSLLDIDPLILHLHLKDRSSINLWGLQPPASLLQPTA SYSRKDKDQKQKQAMRVPSDLKMLKRLKTQMAEVRCKMTDVKM TLSEIKSSSAASGDMQTSLSADQAALAACGTENSGRLQDLGME LLAKSSVANCYIRNSTNKKNSPKPARSSVAGSLSRRAVDPGE NSRSKGDCCQLTSESGSPGSSQSGSRHSSPRALIHGSIQDILPKE DRQCKALDSDAVVAVFSGLEPAVEKRRKMVTLGANAKGGHLESL QMTDLENNSETGELQPVLPBGASAAPBEGMSSSDSDIECDTENEK QEEHTSVGGFHDSEFMVMTQPPDEKTHSSFPDGEQIGPEDLSFNT DENSGR</p>
5979	212	3665	<p>LPDMWYLWLKLLAFGFAPLDTEVFVTGQSPTSPPTDAYLNASE TTTLSPSGSAVITTTTIAITPSKPTCDEKYNITVDVLYNKETK LPTAKLVNENVECGNNTCTNNBVHNLTECKNASVSISHNSCTA PDKTLILDVPPGVEKVPVHCCS\QVEQPDSTIWLKWKNIETSTC DTQNIITYRFQCGNMIFDNKEIKLENLEPEHEHYKCDSEILYNHSHK FTNASKIIRKTDPGSPGEPQIIFCRSEAAHQGVITWNPQRSEFN FTLCYIKETRKDCNLNLDKNLIKVDLQNLKPYTKYVLSLHAYIIA KVORNGSAAMCHFTTKSAPPSQVNMVSMTSNDNSMHVKCRPPR DRNGPHERYHLEVEAGNTLVNESHKNCDPRVKDLQYSTDYTFK AYFHNGDYPGEPFILHSTSYNSKALIAFLAFLIIVTSIALLV LYKIIDLHKRS CNLDEQQLVERDDEKQIMNVPIHADILET YKRKIADRGRLFLAEPQSI PRVFSKFP I KEARKPFNQKNRYVD ILPYDYNRVLSSEINGDAGSNYINASYIDGFEKPRKYIAAQGPR DETVDDEWRMIWEQKATVIMVTRCEEGNRNKCAEYWPSEEGT RAFGECCCKDLTKHKRCP\DYIIQKLNIVNKKKATGREVTHIQ FTSWPDHGVPEDEPHLLKLRVNAFNSFFSGPIVVHCSAGVGR TGTYIGIDAMLEGLEAENKVDVYGVVKKLRRQRCIMVQVEAQYI LIHQALVEYNQFGETEVNLSLHLYLHNMKKRDPPEPSPLEAE FORLPSYRSWRTQHIGNQE\ENKSKNRNSNVIPIYDYNRVPLKHE LEMSKESRHSDESSDDSDSERPSKYINASFIMSYNKP\EVMI AAQGPILKETIGDFQWMI FORKVKVIVMLTELKHGDQEI CAQYWG EGKQTYGDLEVDLKDTSSTYTLRVFELRHSKRKDSRTVYQYQ YTNSVSRQLPABPKELISMIVVVKQLPQKNSSEGNKHKSTPL LIHCRDGSQQTGIFCALLNLLESATTEVVDIFQVVKALRKARP GMVSTFEQYQFLYDVIASTYPAQNGQVKKNNHQEDKIEFDNEVD KVKQDANCVNPLGAPEKLPKAEQABGSEPTSGTEGPEHSVNGP ASPLNQGS</p>
5980	3	2363	<p>DWGCKLRLRLFTYGTQTRVSLALPGQYELVHTLVAHQGNWBTI PEBDLEVQENNEDAHDLELEVTHHALLQEVDDVVAPCQGLR PTVDVLGDLVNDPLPVITYALHKDELSEDEQLQEI RIRKYSFP VFFFKVPKLGSEIIDSSTRMESERSPLYRQLIDLGLSSSHWN CGAPGQDTKAQSMLEQSEKLRHLSTFSHQVLQTRLVDAKALN LVHCHCLDIFINQAFDMQRDLQITPKRLBYTRKKENELYESIMN IANRKQEBMKDMIVETLNTMKEELDDATNMKPKDVI VPENGEF VGTREIKCCIRQIQELIISRLNQAVANKLISVDYLRESFVGT ERCLQSLKESQDVSVHITSNYLKQILNAAHYHEVTFHSGSSVTR MLWBIQIKIIQRITWVSPAITLEWKRKVAQBAIESLSASKLAK SICSPFRTRLNSSHEAFASLRQLEAGHSGRLKTBDLNLRVRK DHAPRLARLSLESRLQDVLHHRKPKLGQELGRGQYGVVYLCDN WGGHFPCKALKSVVPPDEKHNDLAEFHYMRSLEPKHERLVDLHG SVIDYNYGGSSIAVLLIMERLHRDLYTGLKAGLTLETRLQIAL DVVBGIRFLHSQGLVHRDIKKNVLLDKQNRKIDTDLGFKCPEA MMSGIVGTPIHMAPELFTGKYDNSVDVYAPGILFWYICSGSVK LPEAFERCASKDHLWNNVRRGARPERLPVFEDECNQLMEACWDG DPLKRPLLGIVQPMQGINRLCKSNSBQPNRGLDST</p>
5981	1	2519	<p>GRHSAAMERPWAADGLSRWPHGLGLLLQLLPSTLSQDRL DAPPPPAAPLPRWSPGPIGWSGLRAAAA\GGAFPRGGRWRRSAP G\EDBECGRVDRFVAKLANTHQHVDDLRGSVSLSWVGDSSTGV ILVLTTFHVPLVIMTFGQSKLYRSEDKGNFKDITDLINNTPIR</p>

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			<p>TFPGMAICPENSGKVVLTAEVSGSGRGRIFRSSDFAKNFVQTD LFFHPLTQMYSQNSDYLLALSTENGLWVSKNFGGKWEIHK VCLAKWGSNDNTIFPTTYANGSCADLGALELWRTSDLGKSFCTI GVKIYSPGLGGRFLFASVMADKOTTRRIHVSTQDGTWSMAQLP SVGQBQFYSLAANDDMVFMHVDEPGDTGFGTIFTSDDRGIVYS KSLDRHLYTTTGGETDFTNVTSLRGVYITSVLSEDSIQITMITF DQGGRWTHLRKPENSECATAKNKNECSLHHSYSISQKLNVP MAPLSEPNVAVGIVIAHGSVGDASVMVDPVVISDDGGYSWTML EGPHYITLDSGGIIVAIHSSRPINVIKFSSTDEGQCQTYTFT RDPIYFTGLASEPGARSMNISIWGFTBSFLTSQWVSTIDFKDI LERNCEEKDYTIWLAHSTDPEDYEDGCLGYKEQFLRLKSSVC QNGRDYVVTQKPSICLCSLEDPLCDFGYRPNDSKCVQEPBLK GHDLEFCLYGREHLLTNGYRKIPGDKCQGGVNPVREVKDLKKK CTSNFLSPEKQNSKNSVPIILAIIVGLMLVTVVAGVLIVKXVC GGRFLVHLYSVLQQH\AEA\NGVDCVDAIDTASHINKSGYHDDS DEDLLE</p>
5982	56	2316	<p>ATRPGRSSWCRQFSRTASAAPGRSNMLRIPVRKALVGLSKSPK GCVRTTATAASNLIEVFVDGQSVMBEPGTTVLQACRKGVMQIPR PCYHERLSVAGNCRMLVEIEKAPKVVAACAMPVMKGNILINS EKSKKARBGVMEFLANHPDLCPICDQGGECDLQDQSMFQNDNR SRFLEGRKRAVEDKNIGPLVKTIMTRCIQCTRCIRFASIELAGVDD LGTTCRGNDMQVGTIYBKMFMSLSGNIIDICPVGALTSKPYAF TARPWETRKTESIDVMDAVGSNIIVVSTRTGEVMRILPRMHEDIN BEWISDKTRFAYDGLKRQRLTBPMVRNEKGLLTYTTSWEDALSRV AGMLQSPQGDVAAIAGGLVDAEALVALKDLLNRVDSDTLCTBE VFPPTAGAGTDLRSNYLLNTTLAGVEADVLLVGTNPRFAPLF NARTRKSLHNDLKVALIGSPVDLTYTYDHLGDSPKILQDIASG SHFPSQVLKEAKPMVVLGSSALQRNDGAAILAAVSSIAQKIRM TSGVTGDWKMVNIHLRIASQVAALDLYKPKGVEAIRKNPKVLF LLGADGGCITRQDLPKDCFIYQGHGHDVGAPIADVILPGAAYT EKSATYVNTGEGRAQQTQKAVTTPGLAREDWKIIRALSEIAGMTL PYDTL\DOVRNRLIEEVSPNLVRYDDIEG\ANYFQQAELSCLVN QQLLADPLVPPQLTMKDFYMTDSISRASQTMKCVKAVTEGAQA VREPSIC</p>
5983	248	1763	<p>EARGDGGRRRRHRASGRRAGRGEP\AGLKSQGRAPVPRAVARGG RQ\YSAATALLPAGSRIADDLSILYSNRAACYLKEGNCSCGCIQ DCNRALSLHPPSMKPLLRAMAYETLEQYKAYVDYKTVLQIDC GLQLANDSVNRLSRILMELDGPWREKLSLIPAVPASVPLQAWH PAKEMISKQAGDSSSHRQGGITDERTFKALKEBGNQCVNDKNYK DALSKYSECLKINKECAIYTNRALCYLKLQFEEAKQDCDOAL QLADGNVKAIFYRRALAHKGLKNYQKSLIDLKNVILLDPSIIERK MELEBEVTRLLNLKDKTAPFNKEKERRKIRIQEVNEGKEEPRPA GEVSTGCLASEKGGKSSRSPEDPKLP\IAKPNNAYEPGQIINAL STRKDKACAHLLAITAPKDLPMFLSNKLEGDITFLLLIQSLKNN LIEKDP\SLVYQHLLYLSKAERFKMMLTLISKQKELIEQLFEDL SDTPNNHFTLEDIQALKRQYEL</p>
5984	755	1193	<p>SSVCMACTYVSNLGGKQSVSPLASGLMRVSTGPELRLHHSFVL TGDVGGRIICRLVLGLFTKGDTSKKRVHPFSPGPFLLCDLARVG SSPKINVSPFYQN\QTSTQRSCTVFVWQRCSLVGPFPQVTFTMY FHHSLSRISRFSSG</p>
5985	22	1408	<p>ERVARPGTAEPKARRTVRRGRARRDLAGAERKAGVSRGDSGR RRPNPSIPSAAGMSHIQIPPLTELLQGYTVEVLQPPDLVE FAVEYFTRLREARAPASVLPAAATPRQSLGHPPPEPGFDRVADAK GDSSEEDDLEVPVPSRFRNRVSCAETYNPDEEEDTDPRVI HPKTDQRCLQEAACKDILLFNLDQEQLSQVLQAMFERIVKAD EHVIDQDDGDNFYVIBRGTYDILVTKDNQTRSVGQYDNRGSPG ELALMYNTPRAATIVATSEGLWGLDRVTFRRIIVKNNAKRRKM FESFIESVPLLSLEVSRMKIVDVIGBKIKR/DGERIITQGE K\ADSFYIIESGEVSIILRSRTKSNKDGNGQEVETARCHKGQYF GETALVTNKPRAASAYAVGDVKCLVMDVQAFERLLGFCMDIMKR NISHYEBQLVKMFSSVDLGNLGG</p>

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5986	1806	484	DANKSTSLTFHWKLWGRHRRRGLAHPKNHLSPOQGGATPQVP SPCCRFDSFPRGPPPPRLGLLALMAEDGVRGSPVPVSGPPMEED GLRWTPKSPLDPSGLLSCITLPGFGGQSGPEGRSLAPPDASI LISNVCSIGDHVAQELFQGSIDLMAEEAERPEGE\AQHSPLE EHVTCVQSILDEFLQT\YGSLLPLSTDEVVEKLEDIFQGEFSTP SRKGLVLQLIQSYQRMPCGNAMVRGFRVAYKRHVLTMDLGLTLYG QNWLNQVMNMYGDLVMDTVPEK\VFHFNSEFF\DKLRTKGYDG VKRWTKNVDIFNKKLLIPIHLEVHNSLISVDVRRRTITYFDSQ RTLNRRCPKHIAKYLQAEAVKKDRDLFHQGWKGYPKMNVARQNN DSDCGAFVLQYCKHLALSQPPSFSTQDMPKLRRIYKRLCHCKL TV
5987	1806	484	DANKSTSLTFHWKLWGRHRRRGLAHPKNHLSPOQGGATPQVP SPCCRFDSFPRGPPPPRLGLLALMAEDGVRGSPVPVSGPPMEED GLRWTPKSPLDPSGLLSCITLPGFGGQSGPEGRSLAPPDASI LISNVCSIGDHVAQELFQGSIDLMAEEAERPEGE\AQHSPLE EHVTCVQSILDEFLQT\YGSLLPLSTDEVVEKLEDIFQGEFSTP SRKGLVLQLIQSYQRMPCGNAMVRGFRVAYKRHVLTMDLGLTLYG QNWLNQVMNMYGDLVMDTVPEK\VFHFNSEFF\DKLRTKGYDG VKRWTKNVDIFNKKLLIPIHLEVHNSLISVDVRRRTITYFDSQ RTLNRRCPKHIAKYLQAEAVKKDRDLFHQGWKGYPKMNVARQNN DSDCGAFVLQYCKHLALSQPPSFSTQDMPKLRRIYKRLCHCKL TV
5988	1292	410	FKRYFLSFLGLLESSHSRDRIHNLVLMFLATHNLVWVFTCRFQ RLDCITYNAGIMPNOPLNIKALLFGLFS\ABGLLTQGDKITADG LQEVFETDVFGHFIILIRELEPLLCHSDNPSQLIWTSSRNARKSN FSLDFQHSKSGKEPYSSSKYATDLSVALNRNPNQGLYSNVAC PGTALNTLVGILPFIWTLMPAILLLRPFANAFTLTPYNGTE ALVWLFHQKPSLNPLIKYLSATTFGRNYIMTQKMDLDEDTAE KFQKLELEKHIRVTIQTNDQARLSGSC
5989	194	2610	AMDPPQHSQHVLQNLQQRQLGLLCDCTFVVDGVHFAKHAVALA ACSEYFKMLFVDQKDVVHLDISNAAGLGQVLEPMYTAKLISLSE NVDDVL\AVATPLQWQDIITACHALKSLAEPATSPGNNARALAT EGGEKRAKEEKVATSTLSRLQAGRSTPIGPSRDLKEERGQQAQ SAASGAEQTEKADAPREPPVELKPDPTSCMAAABAAALSESS EQEMEVEPARKGEBEQKEEQEKEEGCAGPAEVKEEGSQLENGBA PRENNNEESAGTDSQELGSRARGLRSGTYGDRTESKAYGSVH KCEDCGKEFTHTGNFKRHIRIHTGEKPFSCRECSKAFSDPAACK AHEKTESPLKPYGCECGKSYRLISLNLKRRHSGEARYRCD CGKLFITSGNLKRRHLVHSGEKPYQCDYCGRSFSDPTSKMRHLE THDTRKHKCPHCDKKFNOVGNLKAHLKTHIADGPKLCKRECGKQ FTTSGNLKRRHLRHSGEKPYVCIHCQRQPADGALQRHVRHTG EKPCQCVMGKAFQASSLIAHVROHTGEKPYVCERCGRKRFVQS SQLANHIRHHONIRPHKCSVCSKAFVNVGDLKHHIHTGEKPY LCDKCGRGNRVNLRSHVKTVHQKAGIKILBPEEGSESVSVVT VDDMVTALATEALAAVAVTQLTVPVGAAVTADTEVLKAEISKA VKQVQBEDPNTHILYACDSGDKFLDANSLAQHVRHTAQALVM FQTDADFYQQYGGGTWPAGQVLQAGELVFRPRDGAEGQPALAE TSPTAPECPPPAE
5990	2	4700	FGPGPDSGGGARGSGWGSRSQAPYGTLGAVSGGBQVLLHEEAGD SGFVSLSRGLPSLRDKDLEMBELMLQDETLLGTMQSYMDSLIS LIEDFGSLGEVEMSLPDPWDPSPPSFLETSSPKLPSWRPPSR PRWQSPPPQQRSDGEBREEVASFSGQILAGELDNCVSSI PDPF MHLACPEBEDKATAAEMAVPAAGDESISSLSELVRAMHPYCLPN LTHLASLEDELQEPDDLTLPEGCVVLEIVGQAATAGDDLEIPV VVRQVSPGPRFVLLDSDLETSSALQLLMPLESETEAAVPKVTL CSEKEGLSLNSEEKLDACLKPREVVEPVVPKEPQNPANAAAP GSQRAKGRKKKSKBQPAACVEGYARRLRSSRGQSTVGTEVTS QVDNLQKQPQEEQLKESGPKQKGPRAWARAWAALENSPPKN LERSAGQSSPAKEGPIDLYPKADTIQTNPITHLSLVDSAQAS FMPVDSVEADPTAVGPVLAGPVVPDGLVDLASTSSSELVEPLPA EPVLINPVLADSAAVDPAVVPISDNLPVDAVSPGAPVDLALV

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			<p>DPVFNDLTPVDFVLVKSRTDPERRGAVSSALGGSAPQLLVESES</p> <p>LDPPKTIIEPVKEVVDLSLKIESGTSATTHEARPRPLSLSEYRRR</p> <p>RQQRQAETEERSQPPTGKWPSPRPPTGLADIPCLVIPPAPAK</p> <p>KTALQRSPTPLIICLVPGVSPSPSPPEPPVSKPVASSPTQV</p> <p>PSQEMPLARSPSPVQSVSPAVPTPPSMSAALFPFAGGLGMPPS</p> <p>LPPLPQPPSLPLSMGPVLPDPFTTHYAPLPSWPCYPHVSPEGYP</p> <p>CLPPPPTVPLVSGTPGAYAVPPTCSVPWAPPAPVSPYSSTCTY</p> <p>GPLGWGPGPQHAPFWSTVPPPLPPASIGRAVPQPKMESRGTPA</p> <p>GPPENVPLSLMAPPLSLGLPGHGAPQTEPTKEVKVPVPASPHPK</p> <p>EKVSALVQSPQMKALACVSAEGVTVEEPASERLKPETQETPRR</p> <p>KPPLPATKAVPTPRQSTVPKLEPAVHPARLRKLSFLETPRTQGS</p> <p>DVVQAFISEIGIEASDLSSLEQFEKSEAKKECPPAPADSLAV</p> <p>NSGGVDIPQEKRPDLRLQAPELANVAGLTPPATPPHQLWKPLA</p> <p>AVSLLAKAKSPKSTAQEGTLKPEGVTEAKHPAAVRLQEGVHGFS</p> <p>RVHVGSGDHDYC\VRSTTPPK\MPALLIPEVGRSMNVKRQDI</p> <p>TIKPVLSLGPAAAPPCCIAASREPLDHTSSEADPSAPCLAPS</p> <p>SLLSPEASPCRNDMNTPTPEPSAKQSRMRCYRKACRSASPSSQ</p> <p>GWQRRGRNRSVSGSNRTSEASSSSSSSSSSSSSSSSSSSSSR</p> <p>HRWRSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSR</p> <p>SPRRRSRRRRYSSYRSHDHYQRQVLRQKRAIKERRRVFTIGK</p> <p>IPGRMTRSELKQRFVSFGEIECTIHFVQGDNYGFVTRYAEE</p> <p>AFAAIESGHKLQADEQPFDLCPGGRQFCRYSYDLSNREDF</p> <p>DPAPVSKFDSLDFTLLKQAKNLRR</p>
5991	334	1379	<p>RLSSHFSQCSPSIYC\TKFDKQGNVTSFERKKTELYQELGLQAR</p> <p>DLRFQHVMSITVRNNRIIMRMEYLKAVITPECLILIDYRNLNLK</p> <p>QWLFRZLPSQLSGEGQLVTYPLPPEFRAIBALLQYWINTLQSKL</p> <p>SILQPLILETLDALGDPKHSSVDRSKLHILLQNGKSLSELETDI</p> <p>KIFKESILEILDEBELLEELCVSKWSDPQVFEKSSAGIDHAEM</p> <p>ELLLENYYRLADDLSNAARELRVLIDDSQSIIFINLDSHRNVMM</p> <p>RLNLQTMGTFSLSLFGLMGVAFGMNLESSLEEDHRIFWLITGI</p> <p>FMFGSGLIWRRLSFLGR/LARSSIASYGMKDMVHGIVEGL</p>
5992	2	609	<p>AGPDFRLVCGVSGSGFPGGRQGOATEWRPLRPWNGAMEKLRRL</p> <p>SGQDDREOGLTAQDSQINL/SEVLDASSISFNTRLKWFACFVC</p> <p>GVFFSILGTGLLNLPGGKILFAVFTLGNLAALASTCFLMGVPK</p> <p>QLKKMFETRLATIVMLCFITLCAALWWHKKGLAVLPCILQ</p> <p>FLSMTWYSLSYIPYARDAVKKCCSLLS</p>
5993	1650	594	<p>ABGLGSWAVWAGLGNAGRHMERRAGGATGALGVGCKLPFAFCFPGS</p> <p>SVAMDMFQKVEKIGECTYGVVYKAKNRRTGQVALLKKIRLDLE</p> <p>EGVPSTAIRISLLKELKHPNIVRLDVVHNERKLYLVFEPLSQ</p> <p>DLKKYMDSTPGSELPLHLIKSYLPQLLQGVSPCHSHRVTHRDLK</p> <p>PQNLINELGAIKLADFLARAFGVPLRTYTHEVVTLWYRAPEI</p> <p>LLATRFYTTAVDINSIGCIFAEMVTRKALFPGDS\EIDQ\LFRI</p> <p>FRMLGTPESEDTPGVTLQPDYKGSPPKNTRKGLLEIVPNLEPEG</p> <p>RDLLMQLLQYDPSQRITAKTALAHFYFSSPEPSPAARQYVLRQF</p> <p>RH</p>
5994	394	1934	<p>AGEVQLHVWIRGMRIQPO/KAAAYIDLDPDFEPQSRPRSCWPL</p> <p>PRPEIANQPSKPPVEPDLGEKVHTEGRSEPIILLPSRLPEPAGG</p> <p>PQPGILGAVTGPRKGGSRNANGNQSYABELISQAIESAPEKRLT</p> <p>LAQIYEWVVRTVPYFKDKGDSNNSAGWKNIRHNLSLHSEKFIKV</p> <p>HNRATGKSSWWMLNPEGKSGKAPRRRAASMDSSSKLLGRSKA</p> <p>PKKPSGLPAPPEGATPTS PVGHFAKWSGSPCSRNRREADMWTT</p> <p>FRFRSSSNASSVSTRLSPLRPESEVLAEIIPASVSSYAGGVPT</p> <p>LNGLLELLDGLNLTSSSHLLSRSGLSGFSLQHPGVGTGPLHTYSS</p> <p>SLFSPAEGPLSAGEGCFSSSQALEALLTSDTPPPPADVIMTQVD</p> <p>PILSQAPTLILLGLPSSSKLATGVGLCPKPLEAPGESSLVPTL</p> <p>SMIAPPVMAAPIPKALGTPLVTPPTAASQDRMPQDLDDMY</p> <p>MENLECDMDNIISDLMDGEGLDNFNFPDP</p>
5995	2	2437	<p>RPPGPGPASGAWLCTRAGSAFVPLPFRPPSRGARRRRRLPGR</p> <p>GVALLRRPGSAPGLPRGAERSAAGSGRGPSPREERGAAAAAA</p> <p>AEMMEELHSL\DP\RRQELLEARF\TGLGVSKGPLNSESNNQSL</p> <p>CSVGSLSKKEVETPEKKQNDQRNRKRKAEPYETSQKGTTPRGHK</p>

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			ISDYFERRVEQPLYGLDGSAAKEATEEQSALPTLMSVMLAKPRI DTEQLAQRGAGLCFTFVSAQONSPSSGNTHESSCSQKQISI QHRQT\QSDLTIEKISALENSKNSDLEKKEGRIDDLRANCDLR RQI\DEQQKMLEKYK\ERLNRCPDNEPRNFLEKSKQEKMACRD KSMQDRRLRGHFTTVRHGASFTEQWTDGYAFQNLIKQQRINSQ REEIERQRKMLAKRKPPAMGQAPPATNEQQRKSKTNGAENETL TLAEVHEQEIEFKLRIGHLKKEEABIQAELERLERVRNLHIREL KRHNEDNSQFKDHPITLNDRYLLHLGRGGFSEVYKAPDLTEQ RYVAVKIHQLNKNWRDEKKENYHKHACREYRIHKBLDHPRIVKL YDYPSLDTDSPTVLEBYCBGNDLDFYLLKQHKLMSEKEARSIIMQ IVNALKYLWEIKPPIIHYDLKPGNILLVNGTACGEIKITDFGLS KIMDDDSYNSVDGMBELTSQAGTYWVLEPECFVVCCKPCKSNK VDVWSVGVIIFYQCLYGRKPPGHNSQSQDILQENTILKATEVQFP PKPVVTPKAFIRRCCLAYRKEDRIDVQQLACDPYLLPHIRKSV STSSPAGAAIASTSGASNNSSN
5996	1612	981	DQQAACLLGLMLTLEFGILEFDPSWIGSWTQR/SWVSWRSRPGCE LFSIVVFGSIVNEGYNLSASEGEEFCIYNRNPNACSYGVAVGV AFLTCLLYLALDVYFPQISSVKDRKK\AVLSGHPVVSSEPHPA FWAFLWFTGDS CYL\ANQWQVSKPKDNPLNEGTDASGRPSPPS FFSIFTWSLTAALAVRRFKDLSFQEEYSTLFP\ASAPQ
5997	1612	981	DQQAACLLGLMLTLEFGILEFDPSWIGSWTQR/SWVSWRSRPGCE LFSIVVFGSIVNEGYNLSASEGEEFCIYNRNPNACSYGVAVGV AFLTCLLYLALDVYFPQISSVKDRKK\AVLSGHPVVSSEPHPA FWAFLWFTGDS CYL\ANQWQVSKPKDNPLNEGTDASGRPSPPS FFSIFTWSLTAALAVRRFKDLSFQEEYSTLFP\ASAPQ
5998	1612	981	DQQAACLLGLMLTLEFGILEFDPSWIGSWTQR/SWVSWRSRPGCE LFSIVVFGSIVNEGYNLSASEGEEFCIYNRNPNACSYGVAVGV AFLTCLLYLALDVYFPQISSVKDRKK\AVLSGHPVVSSEPHPA FWAFLWFTGDS CYL\ANQWQVSKPKDNPLNEGTDASGRPSPPS FFSIFTWSLTAALAVRRFKDLSFQEEYSTLFP\ASAPQ
5999	2	1790	RPPMEKARRGGDGPVPRGVLHIVVGFHHKGCQVEFSYPLIP GDGHSHTLPBWKYLPFLALPDGAHNYQEDTVFFHLPFRNG ATVFGISCYR\QIEAKALKVROADITRETQKSVCVLSKLPY LLQAKLQILTHAYFEEKDPSQISILKELYEHMNSLGGASLEGS QVYLGSLPRDLVLFHFKGLILFKLILLEKKVLFYISPVNKLVG ALMTVLSLEPGMIRHGLSDCSQYRPRKMSSEDDGGLQESNPCADD FVSASTADVSHNLGTIRKVMAGNHGDEAMKTEEPFQVEDSS KGQEPNDTNQYLPKPSRPSPDSSSESDWETLDPVLEDPNLKERE QLGSDQTNLFPKDSVPSBSLPIITVQPAQNTGQVVLIPGLISGLE EDQYGMPLAIFTKGYLCLPYMALQQHLLSDVTVRGPFVAGATNI LFRQQKHLSDAIVEVEEALIQIHDPRLRKLNP\TADLRFDY VRHVTENRDUVFLDGTGWEGGDEWIRAQFAVYIHALLAATLQLV LFRIVNVAKKIGNVMVIT\SRNVVQTGK\AVGQSVGGAFS\SAK TA\MSSWLSTPTTSTSQSLTEPPDEKP
6000	101	1561	TEPCRTAENCTATMSENNKNLSLESSLRQLKCHFTWNLMEGENSL DDFEDKVFRTEFQNRREFKATMCNLLAYLKLKGNBAALECLR KABELIQEHDQASIRSLVTWGNVYAWVYHMGRLSDVQIYVDK VKHVCEKFSSPYRIESPELDCEGWTRILKCGGNQNERAKVCFEK ALEKKPKNPEPTSGLAIASYRLDNWPPSQNAIDPLRQAIRLNP NQYLKVLALLKHKMREBEGEEGEK\LVREALEKAPG\VTDV LRSAA\KFYRGKDEPDKAIELKALBYIP\NNAYLHCQIGCCY RAKVPQVMNLRBNHMYGKRKLELIGHAVAHKKADEANDLFR VCSILASLHALADQVEDAEYYPQKEFSKELTPVAKQLLHLRYGN POLYQMKCEDKAIHHFIEGVKINQKSREKEKMDKLQKIAMRL SKNGADSEALHVLAFQLKLNEMKQQAEDSERGLESGSLTPSAS SWNGE
6001	176	1038	AFAPSPSRGHRETHHTPRHTPRCTMAESHLQSSLITASQFPEI WLHFDADGSGYLEGKELQNLIQELQARKKAGLELSPKMTFVD QYQQRDDGKIGIVLAHVLPTEENFLLPRCQQLKSCE\EFMKT WRKYDTDSHSGFIETELKNFLKDLLEKANKTVDDTKLAEYTDLM

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6002	977	81	LKLFDSNNDGKLELTEMARLLFVQENFLKPKQGIKMCGEFNKA PELYDQDQNGYIDENELDALLKDLCEKNKQDLINNITTYKKNI MALSDGGKLYRTDLALILCAGDN LAPPGGGLHIPRTPLSHSRPPPSHHAPHSPPLPLPPADLHPHS SMAQRSDILLELDQQLTRDRVVVVSHDENLRCQSGLNDRDVGSLDF EDLPLYKEKLEVVYFSPGHFAHGSDDRMVRLLEDLQRFPRTPMSV EIKGKNEELIREQ/VLVRRYDRNEITIWASEKSSVMKKCKAANP EMPLSPTISRGFWLLSYLGLLPFIPIPEKFFFCFLPNITINRT YPPFSCCLNQLLAVVSKWLMKSLIRHLEERGQVQVFWCLNB ESDFAAFSVGATGVITDYPITALRHYLDNHGPAARTS
6003	140	4098	GKLRAFRCMRRLICKRICDYKSFDDDEESVDGNRPSSAASAFKVP APKTSQNPANSARKPGSAGGPKVGAGASKEGGAGAVDEDDFIKA FTDVPSIQIYSSRELEETLNKIREILSDDKHWDQANALKKIR SLLVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVVRACITVA HLSTVLGNKFDHGAEAIPTPLFNLVPSAKVMATSGCAAIRFII RHTHVPRLIPLITSNCTSKSVPVRRRSFEFLDLLLQEWQTHSLE RHA AVL VETIKKGIHDADAEARVEARKTYMGLRNHFPGEAETLY NSLEPSYQKSLQTYLKSSGVSASLPQSDRSSSSSQESLNRPFSS KNSTANPSTVAGRVSAAGSSKASSLPGLQRSRSDIDVNAAGAK AHHAAGQSVRSRGLGAGALNAGSYASLEDTSDKLDGTASEDGRV RAKLSAPLAGMGNKADSRGRSRTKMVSQSQPGSRSGSPGRVLT TTALSTVSSGVQVRLVNSASAQKRSKIPRSQGCSEASPSRLSV ARSSRI PRPSVSQGCSEASRESSRDTSPVRSFPQLASRHHRS TGALYAPVYVYASGPGYISQSSRLSSSVSAMRVLTGSDVERA VADALLGDIRTKKKPARRRYSYGMHSDDDANSASSACSESS YSSRNGSIPTYMRQT\EDV\AEVLNRCASSNWSERKEGLLGLQN LLKNQRTLSRVELKRLCEIFTRMFADPHGKRVFSMFLETLVDFT QVHKDDLQDWLFVLLTQLLKKMGADLLGSVQAKVQKALDVTRRS FPNDLQFNILMRFTVDQTPTPSLKVVAALKYIETLAKQMDPGD FINNSETRLAVSRVITWTTEPKSSDVRKAAQSVLISLFEINTPE FTMLLALPKTFQDGATKLLHNHLRNTGCTQSSMGSPLTRPTP RSPANWSSPLTSPNTSNTLSPSAFDYDTENMSEDIYSSLRG VTRAIQNFSPRSQEDMNEPLKRDSSKDDGDSMCGGPG\MSDPR GGDATDSSQTAL\DNKASILLHSMPTSSPRSDYNPNYSDSIS PFNKSALEKAMFDDADQFPDDLSDHSDLVARLLKRI.SHNHER VEERKIALYELMKLTORBSFSVWDRHFKTILLLLETLGDKET IRALALKVLRILRHQPARFKNYABLTVMKTLAEHAKOPHEVVR SAREASV\LATSI\SPBQCIKVLCP IIQTADYPINLAIAIKMT KVIERSVKETLNLLPEIMPGLIQGYDNSESSVRKACVFLVAV HAVIGDELKPHLSQLTGSKMILLNLYIKRAQTGSGGADPTDVS GQS
6004	140	4098	GKLRAFRCMRRLICKRICDYKSFDDDEESVDGNRPSSAASAFKVP APKTSQNPANSARKPGSAGGPKVGAGASKEGGAGAVDEDDFIKA FTDVPSIQIYSSRELEETLNKIREILSDDKHWDQANALKKIR SLLVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVVRACITVA HLSTVLGNKFDHGAEAIPTPLFNLVPSAKVMATSGCAAIRFII RHTHVPRLIPLITSNCTSKSVPVRRRSFEFLDLLLQEWQTHSLE RHA AVL VETIKKGIHDADAEARVEARKTYMGLRNHFPGEAETLY NSLEPSYQKSLQTYLKSSGVSASLPQSDRSSSSSQESLNRPFSS KNSTANPSTVAGRVSAAGSSKASSLPGLQRSRSDIDVNAAGAK AHHAAGQSVRSRGLGAGALNAGSYASLEDTSDKLDGTASEDGRV RAKLSAPLAGMGNKADSRGRSRTKMVSQSQPGSRSGSPGRVLT TTALSTVSSGVQVRLVNSASAQKRSKIPRSQGCSEASPSRLSV ARSSRI PRPSVSQGCSEASRESSRDTSPVRSFPQLASRHHRS TGALYAPVYVYASGPGYISQSSRLSSSVSAMRVLTGSDVERA VADALLGDIRTKKKPARRRYSYGMHSDDDANSASSACSESS YSSRNGSIPTYMRQT\EDV\AEVLNRCASSNWSERKEGLLGLQN LLKNQRTLSRVELKRLCEIFTRMFADPHGKRVFSMFLETLVDFT QVHKDDLQDWLFVLLTQLLKKMGADLLGSVQAKVQKALDVTRRS FPNDLQFNILMRFTVDQTPTPSLKVVAALKYIETLAKQMDPGD FINNSETRLAVSRVITWTTEPKSSDVRKAAQSVLISLFEINTPE

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			FTMLLGALPKTFQDGATKLLHNLHNTGNGTQSSMGSPLTRPTP RSPANWSSPLTSPTNTSQNTLSPSAFDYDTENMSEDIYSSLRG VTEAIQNPSFRSQEDMNEPLKRDSDKDDGDSMCGGPG\MSDPRA CGDATDSSQTAL\DNKASLLHSMPTHTSSPSRSDYNFYNYSDSIS PFNKALKEAMFDDADQFPDDLSLOHSDLVARLLKELSNHNER VEERKIALYELMKLTQEESFSVWDEHFKTILLLELTLGDKPT IRALALKVLRBILRHQPAPFKNYAELTVMKTLEAHKDPHKEVVR SAEEAASV\LATSI\SPEQCIKVLCPITQADYFINLAAIKMQT KVIERSKETLNLPLPRIMPGLIQGYDNSESSVRKACVFCVLAV HAVIGDELKPHLSQLTGRMKLLNLNLYIKRAQTGSGGADPTTDVS GQS
6005	133	5955	RSSGRRQBQLGQFPGRERKGMASGLGSFSPSCAGSEEDMDALL NNSLPPPPHENERDPEEDLSETETPKLKKKKPKKPRDPKIPKS KRQKKERMLLCRQLGDSGEGPEFVBEHEEVALKSDSEGSDYTP GKKKKKLGPKKEKKSXSKRKEEEDDDDDDDSKPKSSAQLL KDWGMEDIDHVFSEEDYRTLTNYKAFSQFVRPLIAAKNPKIAVS KMMVLGAKWREFSTNNPFGSSGASVAAAAAAVAVVESMVT TEVAPPPPPVEVPVIRKAKTKEGKGNARRKPKGSPRVFPAKKPK PKKVAPLKIKLGGFGSKRRKSSSEDDDLVDESDFDDASINSYSV SDGSTSRSSRSRKKLRTTKKKKGESEVTVADGYETDRQDYCEV CQOGGEIILCDTCPRAHYMVLCDPMEKAPGKNSCPHCCKEGI QWEAKEDNSEGREILBEVGGDLKEEDDHHMEFCRVCKDGGELL CDTCPSSYHICLNPPPLPRIPNGEWLCPRCTCPALKGKVQKILI WKWGQPPSPPTVPRPPDADENTPSPKPLEGRPERQFVVKWQMS VNHCSWSELQLELHC\QVMFRNYORKNDMEPPSGDFGGDEEK S\RRKKNKDPKFAEMBERFYRYGIKPSW\MMIHRILNHSVDKKG HVHYLIKWRDLPYDQASWESEDEVEIQDYDLFKQSYWNHRELMRG EBGRPGKRLKKVLRKLERPPETPTVDPTVKYERQPEYLDATGG TLHPYQMBGLNWLRFSAQGTDTLLADEMGLGKTIVQTAFLYSL YKEGHSKGFPLVSAPLSTIIN\WEREPFMWAPDMYV\VTYVGDK DSRAIIRENFFS\FEDNAIRGGKASRMKKKASVKPHVLLTSYE LITIDMAILGSDWACLIVDEAHLKNNQSKFFRVLNGYSLQHK LLLTGTPLQNNLEELFHLLNFLTPERFHNLEGFLEEFADIAED QIKKLHMLG\PHMLRRLKADVFKNMPSKTELIV\RVLSPM\Q KYYK\YILHSKFLKALN\ARGGGNQVSLNVMVMDLKKCCNHPY LFPVAAMEAPKMPNGMYDGSALIRASGKILLQKMLKMLEGGH RVLIFSQMTKMLDLLEDFLEHEGYKYBRIDGGITGNMRQEAIDR FNAPGAQQFCFLSTRAGGLGINLATADTVIYDSDNPHNDIQ APSRHRIGQNKKVMYRPFVTRASVEERITQVAKKMMMLTHLVV RPLGLSKTGSMSKQELDDILKFGTRELKDEATDGGGDNKBEED SSVIHYDDKALERLLDRNQDETEDELQCMNEYLSFPKVAQYV RREEMGESEEVEREIKQESVDPDYWEKLRHHYEQQEDLAR NLGKGRIRKQVNYNDGSQEDRDWDDQSDNQSDYSVASBEGDE DFDERSEAPRRPSRKGLRNDKDKPLPPLARVGGNIEVLGFNAR QRKAFNLAIMRYGMPQDAFTTQMLVRDLRGKSEKFKAYVSLF MRHLCEPGADGARTFADGVPREGLSRQHVLTIGVMSLIRKKVQ EFHVNWRWSMPELAEVERNKKMSQPGSPSKTPTPTPGDTQP NTPAPVPPAEDGIKIENS LKERESIEGEKEVKSTAPETAIECT QAPAPASEDEKVVEPPEGEKVEKAEVKERTEEPMBETEPKGG AADVEKVEKSAIDLTPIVVEDKEEKEEKEEKEVMLQNGETPK DLNDEKQKKNIKQRFMFNIADGGFTLHLSLWQNEERAATVTKKT YEIWHRRHDYWLLAGIINHCYARWQDIQNDERYAILNEPFGEM NRGNFLEIKNKFLARRFKLLEQALVIEQQLRAAYLNMSEDPHS PSMALNTRFAEVECLAESHQHLSESNAGNKPANAVLHKVLKQL RELLSDMKADVTRLPATIARIPPAVAVRLQMSERNILSRANRAP EPTPQQVAAQQQ
6006	1	965	DNDFLRNTVHRHEPPVTAETIRLLAENEDVVVDKPSSTIPVHPC GRFPHNTVIFILGKXHQKELHPLHRLDRLTSGVLMFAKTAAS ERIHQVRDRQLEKEYVCRVEGEFPTTEVTCKEPILVVSXKGV CRVDPRGKPCRTVFPQLSYNGQSSVVRCPRLTGRTHQIRVHLQ LCHPILNDPIYNSVANGPSRGRGGYTPKTNEELLRLDLVAHQAK

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			QSLDVLDLCEGDLSPGLTDTAPSSSELGRDDLEELAAAA\QKME EVAEAAFPQELDTIALASEKAVETDVMNQ\RQT\TLCRVPAGATG SLAPRPCDVPTCPTL
6007	3	2351	HELQVEYVFTDKTGTLTENEMQPRECSINGMKYQ8INGRLVPE GPTPDSSEGNLSYLSSLSHLNLSHLTSSSFRT9PENETELIK EHDLPFKAVSLCHTIVQINNVTQDCTGDPQWQSNLAPSQLEYAS SPDEKALVBAARIGIVFIGNSEETMEVKTGLKLERYLKLLHILE FSDRRRMSVIVQAPSGEKLLFAKGAESSILPKCIGGIEKTRI HVDEFALKGLRLTLCIAYRKPTSKEYEEDKRFEARTALQQR\B EKLAAVFQPIEKDLILLGATAVEDRLQDKVRETIEALRMAGIKV WVLTDGKHRTAVSVSLSCGFHRTMNIILELINQKSDSCAEQLR QLARRITEHVIOHGLVVDGTSLSLALREHEKLFMEVCNCSAV LCCRMAPLQAKVIRLIKISPEKPI TLAVGDGANDVSMIQEAHV GIGIMGKEGRQAARNSDYAIRFKFLSKLLFVGHFFYIRIATL VQYFFYKNVCFITPQFLYQFYCLFSQQLYDSVYLTLY\NICFT SLPI LIYSLLQHVDPHVLQNKPTLYRDISKNRLLSIRKTFLYWT ILGFSHAFIPFPGSYLLIGKDTSLGNGQMFGNWTFGTLVFTVM VITVTVMALETHFWTWINHLVTWGSIIFFYVFSLEYGILWPF LGSQNMYPVFYQLSSGSANFAIILMVVTCFLDIIKKVDFDRHL HPTSTEKAOLETETNAGIKCLDSMCCFPGEAACAASVGRMLERVI GRCSPTHISRSWSASDPFYTNDRSILTLSTMDSSTC
6008	4554	1089	AGVRRAGARRGPGRALFAGATAVPPSARRRRRCPAPEHAGPAR ASRPSQETMPOLPVNNILGSLRKARKTVXKILSDIGLEYCKEHE DFKQFEPNDFYLNKNTTWEDVGLWDPSTLTKNQDYRTKPFCCSACP FSSKFPFSAYKSHFRNVHSEDFENRILINCPYCTFNADKKTLRTH IKIFHAPNASAPSSSLSTFKDKNKNDGLKPKQADSVEQAVYYCK KCTYRDPLYEIVRKHIYREHFQHVAAPIYAKAGEKSLNGAVPLG SNAREESSIHCRCLEFMPKSYEALVQHVIEDHERIGYQVTAMIG HTNVVVPKSKPLMLIAPKPKQDKKSMGLPPRIGSLASGNV\RSLE SQCMVNRLSIPKPNLSTGVNMSSVHLQNNYGVKSVGCGYSV GQSMRLGLGNAFVSIPOQSQSVKQLLPSGNGRSYGLGSEQRSQ APARYSLQSANASSLSGQLKSPSLSQSQASRVLCQSSSKPAAA ATGPPPGNTSSTQKWKICTCNELFPENNVSVHFEKEHKAERVP AVANYIMKIHNTSKCLYCNRYLPTDTLLNHLIHGLSCPYCRS TFNDVEKMAAHMRMVHIDEBMCPKTDSTLSFDLTLQGSHTNIH LLVTTYNLRDAPAESVAYHAQNNPPVPPKPKQKQEKADIPVKS SPQAAVYKQDVGKTLCPCLFSLKGPISDALAHHLRERHQVIQ TVHPVEKKLYTKICHLGVYTSNMFASTITLHLVHCRGVGKTON GQDKINAPSRNLQSPSLAPVKTYYQMEFPLKKRKLDDSDSP SPFEEKPEEPVVLALDPKGH\EDDSYEARKSFLTKYFT\KQPYT TRRELEKLAASLWV\WK\SDIASHFSNKRKKCVRDCEKYKPGVL LGFNMKELNKVKHMDFAEGLFENHDEKDSRVNASKTADKRLN LGKEDSSSDSFENLEESNESGSPFPDPVFEVRPKISNDNPEEH VLKVIPEDAESEEEKLDQKEDGSKYETIHLTEPTKLMHNASDS EVDQDDVVENKDGASPSSESGPGSQVSDFDNTCEMKPGTWSDE SSQSEARSSKPAKKKATMQGDREQLKWNSSYGKVEGFWSKD QSQWKNASENDERLSNPQIEWQNSTIDSEDGEQFDNMMDGVAEP MHGSLAGVKLSSQQA
6009	4272	1534	CHGLQHLTPFRENLNLQGG*BPH*AA*QAVRSEKKSIC*GSPSC HLVLGLVLPVARQSSHSAGPAQSAFR*TGTSGETPKAAEQSGYW EAYTLGHQHWMMFPIQRPLVMKGRRLIMCGKCEKG*VSDSVTGG RAVAGEQASQRRTVFTAGGGECLGAKSVRASVFTGNQPGVMGLL NGKRGGCFESGYLFGFIVIGKIQSLKAVPLPVNGQTGERASPG NCRIHIVDAVC*SEHH*DHFLAAAFLENSTIIS*VAPGSWQDHA VLQKQVQASVRCRGFESVDTAPAGFNAHSPPGLQCEPTTTSVSL FVLAPQDGBGVPPVEGQLTVLGLVVPQSIRHTFVHHTQLFLHP I*KLGA LDVAFLHLTLVCSSEFNVAIG*GKNGGTTLHQLFAEVN AVTRGSAVQRRPSITISSIHVDTKIQQLHDVWVAGADGVVQWQ DPFVVLGAGIFHLIDDLHQIELSFQRRV*EQCGVKPDSQVPP RPLRVGLLQVGPLVRGGRRVAGRGKRCWRDLFPWRWGLSHRT RDLLRGGDRGHVVVIVLCRLGSLVGGIGTDELLWFGGR*LIIG

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			<p>I*RGRLSGEWGCGLGRGLFQVSIIGTVSIVHIGQGDHEVLGG AGLVERGALHATGQGVREALVQQLLDVGPAGALGLCDGAALFQGP GRVGQLPARGLOVCITLVAQWRMHGRELGGARNPWQALHGAAI CGVGAILLKALSQYFLKGG*RLWCARGQ*PVKKRQRRWRG*TR R*NGLTTHCFN*LI*GAVCCRLVILRWCGLELVHGVYGT*IHCL GSFPGRLWP*PFISQERPNGHCQWEFRLAVPSWKRWSRWRVRG TWRYGNPLNLL*GAWLGGAAACGGQQGGPLSTWQACTGPGQAAP LPPFQGCACRPRTQRCRTWVCPIAWRQLLAYTRD</p>
6010	1	3533	<p>IMPCGSSRLRGCTHPNEPVSDDLSTYFDCIESVMENSKVLGSM AGISQNAKTGDLPAFGCECVGIASKALCGLTEAAQAAYLVGIFD PNSQAGHQGLVDPIQFARANQAIQMACQNLVDPGSSPSQVLSAA TIVAKHTSALCNACRIASSKTANPVAKRHVQSAKEVANSTANL VTIKALDGDPSEDNRNKRRIATAPLIEAVENLTAFASNPEFVS IPAQISSRGSQAQEPILVSAKPMLESSSYLIRTARSLAINPKDP PTWSVLAGHSHTVSDSIKSLITSIRDKAPGQRECDYSIDGINRC IRDIEQASLAAVSQSLATRDDISVEALQEQLTSSVQIEIGHLIDP IATAARGEAAQIGHKGTQLASYFEPILIAAVGVASKILDHQQQM TVLDQTKTLAASALQMLYAAKEGGGNPKAQHTHDAITEAQLMK RAVDDIMVTIIEAASEVGLVGMVDAIAEAMSKLDEGTPPEPKG TFVDYQTTVVKYSKAIATVQEMMTKSVTNPEELGGLASQMTSD YGHAFQGGMAAATAEPREIGFQIRTRVQDLGHCIGFLVQKAG\</p> <p>ALQVCPTDSYTKRRLIECARAVTEKVSILVLSALQAGNKGTQACI TAATAVSGIADLDTTIFPATAGTLNAENSETFADHRENILKTA KALVEDTKILVSGAASTPDKLAQAQSSAATITOLAEVVLGAA SLGSDDPETQVVLINAIKDVAKALSDLSATKGAASKPVDPSM YOLKGAAKVMVTNVTSLKTKVAVEDKATRGTRALEATIBCIKQ ELTVFQSKDVPKTSPPRESIRMTKGITMATAKAVAGNSCRQE DVIATANLSRKAVSDMLTACKQASFHPDVSDEVTRALRFGTEC TLGYLDLLEHVLVI*QKPTPELKQQLAAFSKRVAGAVTELQAA EAMKGTWVDPBDPTVIAETELGAAASIEAAKKLEQLKPRAK PKQADETLDFEQILEAAKSIAAATSALVKSASAAQRELVAQGK VGSIPANAADDGQWSQGLISAARMVAAATSSICEANASVQGHA SREKLISSAKQVAASTAQLLVACKVKADQSEAMRRLQAAGNAV KRASDNLVRAAQKAAGFKADDDVVVKTGFVGGIAQIIAAQEEM LKKELELEBARKKLAQIRQQQYKFLPTELREDBG</p>
6011	446	1835	<p>LLQPMARKSPGLSDCLWAWILLSTLTGRSYGQPSLQDELKDN TVFTRILDRLLDGYDNRLRPLGERVTEVKTIDIPVTSFGPVS DMEYITDVFRRQSWKDERLKPKGEMTVLRLNNLMASKIWTPTDF PHNGKKSVAHNMTPNKLRLRITSDGTLTYMRLTVRAECPMAP GRDFPM\D\AHACPLKFGSYATRAEVVYEWIREPARSVVVAED GSRINQYDLLGQTVDSGIVQSSSTGEYVVMTHPHLKRKIGYFVI QTYLPCIMTVILSQVSFWLNRESVPARTVFGVTTVLTMTTSLIS ARNSLPKVAYATAMDWFIAYCFVFSALIEFATVNYFTKRGYA WDGKSVVPEKPKVKVPLIKKNNTYAPTATSYTFNLARGDPGLA TIAKSATIEPKHVKPEKPEPKKTFNSVSKIDRLSRIAPPLLP GIFNLVYWATYLNREPQLKAPTTHQ</p>
6012	351	5013	<p>PAELFQSFALHKKRLYDWRGLGPWNQCPVISKSLKPLECYKGB EGIQVREIACIQKDKDIPAEDII CEYFEPKPLLEQAQCLIPCCQD CIVSEPSAWSECSKTGSGQLQHRTRHVVAPPQCGSGCPNLTRF QVCQSSPCEAEELRYSLVHGPWSTCSMPHSRQVRQARRRGKNKE REKDRSGVKDPEARELIKRRNRNRQNRQENKYWDIIGYQTR EVMCINKTGKAADLSFCQKEKLPMTFQSCVITKECQVSEWSEWS PCSKTCHDMVSPAGTRVTRTIRQFPIGSEKECPFEKEPECLS QGDGVVPCATYGWRTTEWTECRVDPILLSQDQKRRGNQZALCGGG IQTRVYCVQANENLLSQLSTHKNKEASKPMDLKLCTGPIPNNT QLCHIPCPTCEVSPWSAWGCPCTYENCNDQGGKGFKLKRRIT NEPTGGSGVTGNCPHLLZAIPECEPACYDWAVALRGDCEPDNGK RCGPGTQVQEVVCINSDGEEVDRLCRDAIFPIPVACDAPCPKD CVLSTWSTWSSCSHTCSGKTTEGKQIRARSILAYAGEEGGIRCP NSSALQVRSNEHPCTVYHMTGPWGCIEDTSVSSFNNTTTT NGRASC SVGMQTRKVICVRVNVGQVGPKKCPESLRPETVRPCLL</p>

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			<p>PCKKDCIVTPYSDWTSCPS\SCREGDSSIRKQSRHRVILQLEPAN GGRDCTDPLYEEKACEAPQACQSYRW\KTHKN\HRCQ\LVP\WS VQODSP\GAQEGCGPGRQARAITCRKQDGGQAGIHECLQYAGPV PALTOACQIPCODDCQLTWSKFSKSCNGDCGAVRTRKRTLVGKS KKKKCKNSHLYPLIETQYCPCKYNAQPVGNWSDCILPEGKVE VLLGMKVQGDIKEOGQYRYQAMACYDQNGRLVETSRCSNHYI ERACIIPCPSDCKLSEWSNWSRCSKSCGSGVKVRSKWLREKPYN GGRPCPKLDHVNQAQYVEVVPCHSDCNQYLWVTEPWSICKVT NMRENCGEVQTRKVRMONTADGPSEHVEDYLCDPBEMPLGSR VCKLPCPEDCVISRWGPWTQCVLPNCQSSFRQSRADPIRQPADE GRSCPNAVEKEPCNLNKNKYHYDYNVTDWSTCQLSEKAVCGNGI KTRMLDCVRSQKSDVLDKYCEALGLEKNWQMTSCMVECPVNCQ LSDWSPWSECSQTCGLTGKMRRTVTQPPQGDGRPCPSLMDQS KPCPVKPCYRWQYQWSPCQVQRAQCCEGTRTRNISCVVSDGSA DDFSKVVDREFCADIELIIDGNKMMVLEBSCSQPCGDCYLKDW SSWSLQCLTCVNGEDLGFGGIQVRSRPVITQELNQLCPBQML ETKSCYDQCQYBYKWMASAWKSSRTVNCQSDGINVTGGCLVM SQPDADRSCNPPCSQPHSYCSETKTCHCEBEGYTEVMSNSNLTLEQ CTLIPVVVLPMTMEDKRGDVKTSRAVHPTQPSNPAGRGRTWFLQ PFGPDGRLKTWVYGVAAGAFVLLIFIVSMIYLACKKKPKPQRRO NNRLKPLTLAYDGDADM</p>
6013	1161	710	<p>GAFLAGVFPVQFVLIRYPNSLDTTSWAWRGPGVLKVLWLTASQPC SIVDVEFLPVYHPSPEESRDPTLYANNVQVMAQALGIPATECB FVGSPLPVIVVGRLLKVALEPQL/WOTGKSASEGNVAVRWLGRWGR ARPESENDQPGRVCAATAL</p>
6014	2857	613	<p>EAVAGGMEKSRMNLPGKPDITLCFDKDEFMKEDFDVDHFVSDCRK RVQLEELRDDLELYKLLKTAMVELINKVDADF\VNLSNVLVGM DKALNQLSVPLGLQREEVLSLRSSVSEGIKRAVDERMSKQEDIRK KKMCVLRLLIQVIRSVKEIKILNSQSSKETSALASSPLLTGQI LERIATEFNQLQFHACQSK\GMPLLDKVRPRIAGITAMLQQSLE GLLLEGLQTSDDVDIIRHCLRTYATIDKTRDARALVGQVLVKPYI DEVIEQFVESHNPGLQVMYNKLEFVPHCRLLREVTGGAISS EKGNTVPGYDFLVNSVWPQIVQGLEEKLPISLFPNPNDAFHKY TISMDVFRRLERQCGSQASVKRLRAHPAYHSFNKKNLPPVYFQI RFRETAGSLKAALTDVLEDAPEBSPYCLASHRTWSSLRCNSP EMFLPLLVRHLWRLHSGRFWARYSVFV\N\ELSLRPLSNESPKB IKKPLVTGSKEPSITQGNTEQDQSGSPSETPVVSISRTQLVYVV ADLDKLEQLPELLEITIKPKLEMIGFKNFSSISAALDSQSSPS ACVPSLSKIIQDLSDCSFGFLKSALEVPRLYRRTNKEVPTAS SYVDSALKPLFQLQSGHKDLKQAIQQLWLEGLTSESTHYET VSDVLNSVKKMEESLRLKQARKTTPANPVGPGSGMSDDDKIRL QLALDVEYLGELIQLGLQASDIKSFSALELVAAARDQATAEQ P</p>
6015	13	2237	<p>AEGCAERRGTEPVVLSMSWESGAGPGLGSGQMDLVWSAWYGKC VKGKGSPLSAHGIVVAVLSRAEWQVTVYLPDCHKLQRYALN RITVWRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLY GMALVRFVNLISERKTKFAKVLKCLAQEVNIPDNIVDLRHELT HKMPHINDCRRGCYFVLDWLQKTYWCROLENSLRETWELEEF EGIEEDQEEDKNIVVDDITEQKPEPQDDGKSTESDVKADGDSK GSREVDSHCKKALSHKLYERARELLVSYEEQFTVLEKFRYLP KAIKAWNNSPRVECVLAELKGVTCENREAVLDAFLDDGFLVPT FEQLAALQIEYERNVDLNDVLVPKPFQWQPLRLGLHSQNFQ ALLERMLSELPAIGISGIRPTYLRTVETLIVANTKTGRNARR SAGQWEARRGWRLFNCSASLDWPRMVESCLGSPCWASPOLLRIT F\KAMGQGLQDE\EQEKLRLICSITYQSGENSLVQEGSEASPIG KSPYTLDSLYWSVKPASSFGSEAKAQQKEQGSVNDVKEEKE EKEVLPDOVEEREENDQEEBEDEDEDEDEDEDEMEVGPFTG QESPTAKNARLLAQKRGALQGSANQVSSDVWDVTFP\LGRMP SRPRTPAELMLNETHVI FWTKPVL\BQLEPSTCK\TDTGL \SCGVGS\GNCSSSSSNFRGAFLLRAGSLH\CL\KTGLQLP AEGCAERRGTEPVVLSMSWESGAGPGLGSGQMDLVWSAWYGKC</p>
6016	13	2237	

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			VKGKGSPLPSAHGIVVAWLGRAEWDQVTVLFCDDHKLQRYALN RITVWRSRSGNELPLAVASTADLRCKLLDVTGGGLGTDRLRLY GMALVRFVNLISERKTKPAKVPKCLAQEVNIPDWIVDLRHRLT HKKMPFINDCRRGCFVLDWLQXTYWCRLNSLRRETWELEEF EGIEEDQEEEDKNIVDDITQKPEPQDDGKSTESDVKAQDGSK GSEEVDSHCKKALSHKELYERARELLVSYREEQFTVLEKFRYLP KAIKAKNNPSRVECVLAEKGVTCENREAVLDAFLDDGFLVPT FEQLAALQIEYENVDLNDVLVPKPPSQFQWQLRLGLHSQNFTQ ALLERMLSELPAIGISGIRPTTYILRWTVBLIVANTKTGRNARR SAGQWEARRGNRLFNCSASLDWPRMVESCLGSPCWASPOLLRIT F\KAMGGQLODE\BQEKLLRICSIYTSQGENSLVQBGSEASPIG KSPYTLDSLVNSVKPASSSPGSEAKAQQEEQGSVNDVKEKEKE EKEVLDPQVEEKEENDDQEEKEEDDEDEDEDEDRMEVGPFTG QESPTAENARLLAQKRGALQGSANQVSEEDVRWDTFP\LGRMPR SRPRTPARLMLENYDTHIVFTWTKPVL\BQRLEPSTCK\TDTLGL \SCGVGS\GNCNSNSSSNFRGAPLLRARGSLH\GL\KTGLQLF
6017	203	3469	SHQETBQNSAMAPRKRGGRGISIFCCFRNNDHPEITYRLRND NFALQTMEPALPMPFVEELDMFSELVDELDTDKHREAMPALP AEKKWQIYCSKKKQDEENKATSWPEFYIDQNSMAAKESLLAL EKBEERERSKTIKSLKALRTKPMRFVTRFIDLDGLSCILNPLK TMDYTESERIHTSLIGCIKALMNSQGRAHVLAHSBSINVIAQ SLSTENIKTKVAVLEILGAVCLVPGGHKKVLQAMLHYQKYASER TRPQTLINDLXSTGRYRDEVSLKTAIMSFINAVLSQAGVESL DFRLHLRYE\FMLGIIHPVMDKLRKHENSTLDRHLDFFEMLRNE DELEFAKRFELVHIDTKSATQMPBLTRKRLTHSEAYPHFMSILH HCLQMPYKRSQNTVQYWLDDRIIQQIVIQNDKGQDPDSTPLEN FNKINVVRMLVNEVEVQWKEQAKMKRKEHNELOQKLEKKEREC DAKTQKEEEMQTLNKKMKLEKETTEHKQVQKQVADLTAQLHE LSRRAVCASIPGGPSPGAPGGFPSSVPGSLPPPPPPPLPGCM LPPPPPLPPGGPPPPPPPPPIGAIMPPPGAPMGLAKKKSIPO PTNALKSFNWSKLPENKLEGTVWTEIDDTKVFKILDLEDLERTF SAYQRQODFFVNSNSKQKADADITLSSKLKVKELSVIDGRRRA QNCNILLRSLKLSNDEIKRAILLTMDQEDLPKDMLEQLLKFVPE KSDIDLLBKHHELDRAKADRFLFMSRINHYQORLQSLYFKK KPAERVAEVKPKVEAIRSGSEEVPRSGALKQLLEVVLAFGNMNV KGQRGNAYGPKISSINKIADTKSSIDKNITLHYLITIVENKYP SVLNLNEELRDIPQAAKVNMTELDKEISTLSGLKAVETELEYQ KSQPPQPGDKFVSVVSQFITVASFSFSDVEDLLAEAKDLFTKAV KHFGERAGKITQDEFFGIFDQFLQAVSEAKQENENMRKKKEEEE RRARMEAQLKEQREERERKMRKAKENSRESGEFDDLVSAIRSGEV FDKDLKLRNRKRITNQMTDSSRERPITKLN
6018	13	2510	TISQSGGIRRRREAVWFEVVMDFSRILHMYSPPCVPENTGYTY ALSSSYSSDALDFETHEKLDPVFDSRMSRRSLRLATTACTLGD GEAVGADSGTSSAVSLKNRAARTTKQRETSNKSASFSLNHVSRQV TSSGVSYGGTVSLQDAVTRRPVLDSEWIREQTVDHFWGLDDD GDLKGGNKAAIQGGDVGAGAATGNGFFCSNCNMLSERKDVLT AHPAAGPVSRVYSRDRNQKDDCKGRHLDAHPRAGTLWHIN ACAGYFLLQLLRIGAVGQAVSRTAWSALWLA VAPGKAASGVF WNLGIGWYQFVTLISLWLVFLTRCLRNICKFLVLLIPLFLLLG LSLRGGQ\NFFSFLPVLNWSMHRTQRVDDPDQVFKPTTSRLKQ PLQGDSEAFPHWMSGVEQQVASLSGQCHHGENLRELTTLLQK LQARVDQMEGGAAGPSASVRDAVGQPPRETDPMFPHQEHVSRMS HLEDILCKLREKSEAIQKELQTKQKTI SAVGEQLLPTVEHLQ ELDQLKSELSSWRHVKTGCETVDAVQERVVDQVREMKLLFSED QOQGSLEQLLQRFSSQPVSKGDLQTMRLDLQLQTLRNVTTHVSV TKQLPTSEAVVSAVSEAGASQITBAQARAIVNSALKLYSQDKTG MVDFALES GGGSILSTRCSETYETKTALMSLFGIPLWYFQSQR VVIQPDIIYPGNCNAFKGSQGYLVVRLSMMIHPAAFTLEHIFKTL SPTGNISSAPKDPFVYGLENEYQREGQLIGQFTYDQDGESLQMF QALKRFDDTAFQIVELRIFSNNGHPEYTCLYRFRVHGEVVK
6019	2	1066	TPNDREPPPPQRPSSRRASHLAQETISAASLGDQTQILGSLTTA

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			PVITSAIRSMFGISSQILITNAQGGVITGLPWNVNSASVAPAPA QSLQVQAVTPQLLLNAQGGVITATLASSPLPPPVAVRK\ PSTPES LLKSEVQPIKPTPTVPQPAVVIASPAAPAKPSASAPIPTCSET PTVSQLVSKPHTPSLDEGGINLEIRBFKNFKIRRLSLGLTQT QVGQALTATEGPAYSSAICRFEKLDITPKSAQKLKPVLEKWLN EARLRNQEQQNLMEFVGGEPSKKRKRRTSFTPOAIRALNAYFE KNPLPTGQETITEIAKELNYDEVVRVWF CNRRQTLKNTSKLNVF QIP
6020	4953	549	EAIQFEVSIIGNYGNKFDTTCKPLASTTQYSRAVFDGNYYYLPLW AHTKPVVTLTSYWEDISHRLDAVNTLLAMAERLQTNIEALKSGI QGKIPANQLAELWLKLIIDEVIEDTRYTLPLTEGKANVTVLDTQI RKLRSRSLSQIHEAAVMRSEATDVKSTLARIEDWLDKLMQLTE EPQNSMPDI IWMIRGEKRLAYARIPAHQVLYSTSGENASGKYC GKTQTI FLKYPQEKNNGPKVPVELRVNIWLGLSAVEKKFNSFAE GTFTVFAEMYNQALMFGKNGTSGLVGRHKFSDVTGKIKLKREF FLPPKGWEWECEWIVDPERSLLTEADAGHTFTDEVYQNESRYP GGDWKPARDITYTDANGDKAASPELTCPGWEWEDDAWSYDINR AVDEKGEWEYGITIPPDHKPKSWAAEKMYHTRRRRLVRKRKDD LTQTASSTAGAMEELQDQEGWEYASLIGWKFNKQSSDTFRRR RWRKMAPSETHGAAAI FKLEGALGADTTEDGDEKSLKQKHS A TTVEGANTPIVSCNFD RDYIYHLRCYVYQARNLLALDSDSFPD YAHICFLHRSKTTBIIHSTLNPTWDOTIIFDEVEIYGEPTVLQ NPPKVMELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLW HPVMNGDKACGDVLVTAELILRGKDGSNLPILPPORAPNLYMVP QGIRPVVQLTAIRILANGLRNMKNFQMASITSPSLVVECGGERV ESVVIKNLKKTPNFPSSVLFMKVFLPKELVMPPLVIVKVIDHRQ FGRKPVVGQCTIERLDRFCDFYAGKEDIVPQLKASLLSAPPCR DIVLEMDTKPLASKCLSSMSTALSMAKSPATVHLTEKBERIV DWNSKPYASSGEHEKCGQYIQKGYSKLKTYNCELENVARFEGLT DFDSTPKLYRGKSDENEDPSVVGFEKGSFRIYPLPDDPSVPAPP RQFREL PDSVPQECTVRIYIVRGLELQPDNNGLCDPYIKITLG KKVIE\DRDHYIPNTLNPVFGMYELSCYLPQEKDLKISVYDYD TFRDEKVGBTIIDLNPFF\LSRFG\SHCG\IPEEYCVSGVNTN RDSLR\PTQ\LLQNVARFKGFQPOPILSEDSRIRYGGRDYSLDE FEANKILHQHLGAPERRLALHILRTQGLVPRHVTRTIHSFTQP NIS\RYLYRVIWNTKDVILDEKSI TGEEMSDIYVKGWIPGNBE NKQKTDVHYRSLDGEENFNWRFPFPDYLPAEQLCIVAKKEHFW SIDQTEFRIPPR\LIQIW\DNCKPS\LDDYLGFPRTLTCHRTI HFLQKSPGGNC/RGLDMPDLKAMNPLKARTASLFEQKSMKGWW PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSFLWFTNPCKTMKFIWRRFKWVIIGLLFLLILL LFVAVLLYSLPNYLSMKIVKPNV
6021	4953	549	EAIQFEVSIIGNYGNKFDTTCKPLASTTQYSRAVFDGNYYYLPLW AHTKPVVTLTSYWEDISHRLDAVNTLLAMAERLQTNIEALKSGI QGKIPANQLAELWLKLIIDEVIEDTRYTLPLTEGKANVTVLDTQI RKLRSRSLSQIHEAAVMRSEATDVKSTLARIEDWLDKLMQLTE EPQNSMPDI IWMIRGEKRLAYARIPAHQVLYSTSGENASGKYC GKTQTI FLKYPQEKNNGPKVPVELRVNIWLGLSAVEKKFNSFAE GTFTVFAEMYNQALMFGKNGTSGLVGRHKFSDVTGKIKLKREF FLPPKGWEWEGRWIVDPERSLLTEADAGHTFTDEVYQNESRYP GGDWKPARDITYTDANGDKAASPELTCPGWEWEDDAWSYDINR AVDEKGEWEYGITIPPDHKPKSWAAEKMYHTRRRRLVRKRKDD LTQTASSTAGAMEELQDQEGWEYASLIGWKFNKQSSDTFRRR RWRKMAPSETHGAAAI FKLEGALGADTTEDGDEKSLKQKHS A TTVEGANTPIVSCNFD RDYIYHLRCYVYQARNLLALDSDSFPD YAHICFLHRSKTTBIIHSTLNPTWDOTIIFDEVEIYGEPTVLQ NPPKVMELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLW HPVMNGDKACGDVLVTAELILRGKDGSNLPILPPORAPNLYMVP QGIRPVVQLTAIRILANGLRNMKNFQMASITSPSLVVECGGERV ESVVIKNLKKTPNFPSSVLFMKVFLPKELVMPPLVIVKVIDHRQ FGRKPVVGQCTIERLDRFCDFYAGKEDIVPQLKASLLSAPPCR

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			<p>DIVIEEDTKPLLASKCLSSMTALSKMASPATVHLTEKEERIV DWNSKFYASSGGEHEKCGQYIQKGYSKLKIYNCELENVAELEGIT DPSDTFKLYRGKSDENEDPSVVGEPKGSFRIYPLPDDPSVPAPP RQFRELPSVPOECTVRIYIVRGLELQPDNNGLCDPYIKITLG KKVIE\DRDHYIPNTLNPFVGRMYELSCYLPQEKDLKISVYDYD TFTRDEKVGETIIDLENPF\LSRFG\SHCG\IPEEYCVSGVNTW RDSLR\PTQ\LLQNVARFPGFPQPLSEDSRIRYGGRDYSLDE FEANKILHQHLGAPBERLALHILRTQGLVPEHVETRTLHSTFQP NIS\RYTLRVIWNTKDVILDEKSTIGREMSDIYVKGWIPGNEB NKQKTDVHYRSLDGENFNWRFVFPDYLPABQLCTIVAKKEHFW SIDQTEFRIPPR\LIQIW\DNKFS\DDYLGFPRTLTCRHTI HPLQKSPGNC/RLDMIPLKAMNPLKAKTASLFEQKSMKGWW PCYAEKDGARVMAGKVMETLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSLWFTNPCKTMKFIWRRFKWVIIGLLFLILL LFVAVLLYSLPNYLSMKIVKPNV</p>
6022	4953	549	<p>EAIQFEVSGYGNKFDITCKPLASTQYSRAVFDGNYYYLW AHTKPVVLTLSYWEDISHRLDAVNTLLAMAERLQTNIRALKSGI QGKI PANQLAEWLKLIIDEVIDTRYTLPLTEKANVTVIDTQI RKLRSRLSQIHEAAVMRSEATDVKSTLAETEDWLDKIMQLTE EPQNSMPDIIWIMIRGEKRLAYARIPAHQVLYSTSGENASGKYC GKTQTLFLKYPQKNGPKVPVELVNIWGLSAVEKKFNSPAB GTFTVFAEMYNQALMPKNGTSGLVGRHKFSVDVTGKIKLKREF PLPPKGWEWEGEWIVDPERSLLEADAGHTEFTDEVYQNESRYP GGDWKPAEDTYTDANGDKAASPELTCPPGWEWEDDAWYDINR AVDEKGEWYGITIPDHPKPSWVAEKMVTHRRRLVRRKXO LTQTASSTAGAMEELQDQEGWEYASLIGWKFHWKQSSDTFRFR RWRKMAPSETHGAAAI FKLEGALGADTTEDGDEKSLKQKHS TTVFGANTPIVSCNFDYIYHLRCVYVQARNLLALDKDSFSDP YAHICPLHRSKTETIESTLNPTWDTIIFDEVYIYGEPTVLQ NPPKVMELFONDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLW HPVMNGDKACGDVLTABLILRGKDGSNLPLPPQAPNLYMVP QGIRPVVQLTAIEILAWGLENNKFNQMASTSPSLVVECGERV ESVVIKNLKKTPNFPSSVLFMKVFLPKBELYMPPLVIKVIDHRQ MGRKPVVGQCTIERLDRFCDPYAGKEDIVPQLKASLLSAPP DIVIEEDTKPLLASKCLSSMTALSKMASPATVHLTEKEERIV DWNSKFYASSGGEHEKCGQYIQKGYSKLKIYNCELENVAELEGIT DPSDTFKLYRGKSDENEDPSVVGEPKGSFRIYPLPDDPSVPAPP RQFRELPSVPOECTVRIYIVRGLELQPDNNGLCDPYIKITLG KKVIE\DRDHYIPNTLNPFVGRMYELSCYLPQEKDLKISVYDYD TFTRDEKVGETIIDLENPF\LSRFG\SHCG\IPEEYCVSGVNTW RDSLR\PTQ\LLQNVARFPGFPQPLSEDSRIRYGGRDYSLDE FEANKILHQHLGAPBERLALHILRTQGLVPEHVETRTLHSTFQP NIS\RYTLRVIWNTKDVILDEKSTIGREMSDIYVKGWIPGNEB NKQKTDVHYRSLDGENFNWRFVFPDYLPABQLCTIVAKKEHFW SIDQTEFRIPPR\LIQIW\DNKFS\DDYLGFPRTLTCRHTI HPLQKSPGNC/RLDMIPLKAMNPLKAKTASLFEQKSMKGWW PCYAEKDGARVMAGKVMETLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSLWFTNPCKTMKFIWRRFKWVIIGLLFLILL LFVAVLLYSLPNYLSMKIVKPNV</p>
6023	102	916	<p>SQELGMFVELNLLNTTPDRAEQGKLTLLCDAKTDSFLVHHPL SFYLANCKVCVVALIQSFHSYIVGQKLGVSLTMARERGQVLF LEG/IVCSGR\VPQAQKSPHPLQLREANAGNLKPLFEFVREA LKPVDSEARWTPVILVDDLSVLLSLGMGAVAVLDFIHYCRAT VCWELKGNMVLVHDSGDAEDEENDILLNGLSHQSHLILRAEGL ATGFCRDVHIGQLRILWRRSPQAVHRDQSFTYQYKIQDKSVSFF AKGMSPAVL</p>
6024	3	3260	<p>FLSPLCYPRFRCLFCLQPAIPASRMEQLNELELMEKSPWREAB LPABLFQKKVVASFPRTVLSTGMDNRYLVAVNTVQNKGNCRK RLVITASQSLENKELCILRNDWCSVPVEPGDIHLEGDCTSDTW YIDKDFGYLILYPDMISGTSIASSIRCRRRAVLSETFRSSDPA TRQMLIGTVLHEVFQKAINNSFAPEKLOELAFQTIQIRHLKEM</p>

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			YRLNLSQDEIKQEVEDYLPSECKNAGDFMHKNTSTDFPOMQLSL PSDNSKDNSTCNIEVVPMDIEESINSPRFLGKIDVTGVGKI HRGYKTKYKIMPLELKTGKESNSIEHRSQVLYTLLSQERRADP EAGLLLYLKTGQMPVPANHLDKRELLKLRNQMAPSLFHRISKS ATRQKTQLASLPQIEEERTCKYCSQIGNCALYSRAVEQQMDCS SVPIVMLPKIBETQHLKQTHLEYFSLWCLMLTLESQSKDNKKK HQNIWMLPASEMEKSGSCIGNLIRMEHVKIVCDGQYLHNFQCKH GAIPVTNLMAGDRVIVSGEERSLFAISRGYVKEINMTTITCLLD RLNLSVLPBSTLPRLDQEEKNCIDITPLGNLSKLMENITFVSKKL DLIIDFRBPQFISYLSVLPFDADTVACILKGLNKPQRQAMKK VLLSKDYTLIVGMPGTGKTTICTLVRILYACGFSVLLTSYTHS AVDNILLKLAKFKIGFLRSR\QIQKVHPAIQQPTEHEICRSKSI KS\LALLEELYTSQLIDATTCMGINHPIPSRKIFDFCIVDEASQ ISQPICLGPLEFFRRFVVLVGDHQQLPPLVLNREARALGMSSELF KRLEQNKSAVVQLTVQYRMMSKIMSLSNKLTYBGKLECGSDKVA NAVINLRHFKDVLELBFYADYSDNPMLMGVFPNPNVCFINTD KVPAPQVEKGGVSNVTEAKLIVFLTSIFVKAGCSPSDIGITAP YRQQLKIINDLLARSIGMVEVNTVDKYQD\RDKSIVLVSFVRSN KDGTVGELLKDWRRINVAITRAKHKLILGCVPSLNCYPPLEKL LNHLNLERLIIDLPSEHESLCHILGDFQRE
6025	3977	89	GGFPAQSDHLPVPFPLRSDLITMSTLYVSPHPDAPPSLRALIA ARYGEAGEGPGWGAHPRICLPPTTSRTSFPFPRLEALEQGGPG GLWVGATAVAQILLWPAGLGGPGSRAAVLVQQWVSADTELIP AACGATLPALGRSSAQDPQAVLGALGRALSPLSEWLRILHTYLA GEAPTADLAATAVALLLPFRYVLDPPARRIWNVTRWFTCVRG PEFRAVLGEVVLVYSGARPLSHQPGPEAPALPKTAAQLKKEAKKR EKLEKFQKQKIQQQPPPEKKPKPEKREKRDGPVITYDIPTP PGEKKDVSQEMPDYSYSPRYVEAANYPWNEQCGFFKPEYGRPNVS AANPRGVFMMCIPPPNTVGSLLHGHALTNAIQDSLTRWHRMRGE TTLWNPGCDHAGIATQVVVEKKLWREQLSRHQLGREAFQGEVW KWKBEKGDRITYHQLKGLGSSLDWDRACTMDPKLSAAVTRAFVR LHEBGIYRSTRLVNWSCTLNSAISDIKVDKKELTGRTLLSVPG YKEKVEFGVLVSFAYKVQGSDDSEEVVATRIETMLGDVAVAV HPKOTRYOHLKGNVNHPPILSRSLPIVDFEVDMDPGTGAUKIT PAHDQNDYEVGQRHGLEAISIMDSRGALINVPPFLGLPRFEAR KAVLVALKERGLFEGIEDNPMVPLCNRSKDVVEPLLRQWYVR CGEMAQAASAATAVTRGDLRLPERHQRTWHAMNDNIRE\WCMPPG KLWNG\HR\IPAYFVTVSDPAVPPGEDPDGRYVNSGRNREARE KAAKEFGVSFDKISLQODEVDLDTWFSGLFPLSILGWPNOSED LSVFYPTLLETGHDILFFWVARMVMLGLLTLGRLPFREYVLA IVRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLLNSNLDPS EVEKAKEGQKADFPAGIPECGTDALRFGLCAYMSQGRDINLDVN RIILGYRHFCNKLWNATKPAIRGLGKGFVPSPTSQPGGHESLVDR WIRSRLEAVRLSNQGFQAYDFPAVTTAQYSFNLVYELCDVYLEC LKPVLNGVDQVAABCARQTLTYCLDVGLRLLSPPMPFVTEELFQ RLPRRMPQAPPISLCVTPYPEPSECSWKDPEARAALALALSLTRA VRP\LRADYNLHPESGPTCFLEVAD\EATGALASAVSGYVQGGP QAQVVVAVAEPPGLPAP\QCAVALASDRCSI\HLQLQG\LLDP ARELG\KLQ\AKRVEAQ\ROAQ\RLR\ERRA\ASGNPVKVPL\VE VQEADEAKLQQTAEALRKVDRAIALALFQKML
6026	2674	514	GPITFLKKKAKMKDMLRIHVLLGLATTLLVQAVDKKVDCCPRLC TCBIREWFTPRSITYMEASTVDCNDLGLLTPPARLPANTQILLQ TNNIARIKBYSTDFPNLTGLDLSQNNLSVTVNINGKMPQLLSV YLEENKLTPEKCLSELSNLQELYINHNLLSTISPGAFIGLHN LLRLHLNSNRLQMINSKNFDALPNLEILMIGENPIIRIKDMNPK PLINLRSLVIAGINLTETPDNALVGLLENLESISFYDNRLIKVPH VALQKVNLKFLDLNKNPINRIRRGDFSNNMLHLKELGINNMPEL ISIDSLAVDNLPLRKIEATNNPRLSVIHPNAPFRLPKLESIML NSNALSALYHGTTESLPNLKEISIHNSNPIRCDVIRWMNMNKTN IRFMEEDSLFCVDPPEFQGNVQVHFRDMMELCLPIAPESEFP SNLNVAGSYVSFHCRTA\BQPEIYWIITPSGQKLEPNT\LTD

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			KFYVHSEGLDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDG SFPQDNNGSLNLIKIRDIQANSVLVSWKASSKILKSSVKWTA TENSAAQASARIPSDVKVYNLTHLPSTBYKICIDIPITYQKNR KCVNVTIKGLHPDQKYEKNMTTLMACLGGLLIGVICLIS CLSEPMNCDGGHSYVRNLYQKPTFALGELYPLINLWEAGKEKS TSLKVKATVIGLPTNMS
6027	5254	4148	GGRRAPGRPGRSIKDEEBETVREVVVSFPDPLPVRYDKOTTK PISFYLSLLELLAWKPRLEDGFNVALEPLACRQPLSSQRPRT LLCHDMGGYLDLDRFIQGSVVQTPYAFYHWQCIDVFVYFHSHTV TIPVVGWINTAHRHGVCLGTFITEKNNEGGRLCRAFLAGDERSY QAVADRLVQIT\RFRRFDGWLINTENSLAAVGNMPPFLRYLT TQLHRQVPGGLVLWYDSVVQSGQLKWQDELNQHNRVFPDSCDGF FTNWNWREHLEMLGQAGERRADVYGVDFARGNVVGGRRFDT DKVGGGFRPRASGPPVPLGPHPLMDLPPPSAPQRNDS SCSSQSG DPVALRNRCAPAPAKLCPH
6028	120	3432	NCLLIQAKGPHGEIEDLQOWLTDTERHLLASKPLGLPETAKEQ LNWVMEVCAAEPAKEETYSKLSMQGQQLARCPKSAFTNIDQDI NNLKEKWESVETKLNRR\KT\KLREAINLA\MEFHNSL\QDPIN WLTQAEQTLNVA SRPSLILDTVLQIDEHKVPANVNSHREQII ELDXGTGTHLYFSQKQDVVLKNNLISVQSRNEKVVRIVERGR SLDDARKRAKQFHEAWSKLMEWLRESEKSLDSELELANDPDKIK TQLAQHKEFKSLGAKHSVYDTTNRGTGRSLKEKTSLADDNLKLD DMLSELRDKWDTICGKSVBERONKLEEA\LLFSGQPTDALQALID WLYRVEPQLARDQPVHGDIDLVMNLIDNHKAPQKELKRTSSVQ ALKRSARELIEGSRDDSSWVKVOMQELSTRWETVCALSISKQTR LEAALRQAEFHSVVHALLENLAEEQTLRFHGVLPDDDALRT LIDQHKEFMKLEEKRAELNKATTMGDTVLAICHPDSTITIKHW ITIRARFEVLAWAKHQQRASALAGLIAQELLEALLAWLQ WAEETLTDKDEKVIQBIIEVKALIAEHQTFMEEMTRKQPDVDK VTKTYKRRADPSSLSQSHIPVLDKGRAGRKRPPASSLYPSGSQT QIBTKNPRVNLVSKWQVWLLALEERRKLNDALELREFA NEFDIWRKKYMRNMNHKKS RVMDFFRRIDKQDQKITRQEFID GILSSKFPTSRLEMSAVADIFDRDGDGYIDYEFVAALHPNKDA YKPIDADKIEDEVTRQVAKCKCAKRFQVRQIGDNKRYFFLGNQ PGDSQQLRLVRLRSTVMVRVCGGWMALDEFVKNDPCKRAGRT NMBLREKFTLADGASQGMAAFPRGRRSRPSSRGASPNRSTSVS SQAAQAASQVPATTTPKILHPLTRNYGKPLTNSKMTPTCKAA ECSDFPVPSARGTPIQGSKLRLPGYLSGKGFHSGEDSGLITTA ARVTTQPADSKKTPSRPSRAGSKAGSRASSRRGSDASDFDISE IQSVCSDEVETVPQTHRPTPRAGSRPSTAKPSKIPTQRKSPASK LDKSSKR
6029	1	3533	IMPCGSSRLLRGCWTHFNEPVSDLSYFDCIESVMENSKVLGESH AGISQNAKTGDLPAFGECVGLASKALCGLTEAAQAAYLVGIFD PNSQAGHQGLVDP IQFARANQAIQMACQNLVDPGSSPSQVLSAA TIVAKHTSALCNACRIASSKTANPVAKRHFVQSAKEVANSTANL VKTIKALDGDSEDRNRNKRITATAPLIEAVENLTAFASNPRFVS IPAQISSEGSQAQEPILVSAKPMLESSSYLIRTARSLAINDKDP PTWSVLAGHSHTVSDSIKSLITSIRDKAPQRECDYSIDGINRC IROIEQASLAASQSLATRDDISVEALQEQLTSVVQIEGHLIDP IATAARGEAQIGHKGTQLASYFEPLILAAGVASKILDHQQM TVLDQTKTLAESALQMLYAAKEGGGNPKAQHTHDAITEAAQLMK EAVDDIMVTLNEAASEVGLVGGMVDAIAEAMSKLDEGTPPEPKG TFVDYQTTVVKYSKALAVTAQEMMTKSVTNPEELGGLASQMTSD YGHAFQGGMAAATAEPFEEIGFQIRTRVQDLGHGCI FLVQKAG\ ALQVCPTDSYTKRLIECARAVTEKVS LVI.SALQAGNKGTQACT TAATAVSGIIADLDTTIMFATAGTLNAENSETFADHRENTLKA KALVEDTKLLVSGAASTPDKLAQAQSSAATITQLAEVVKLGAA SLGSDDPETQVVLINAIKDVAKALSDLISATKGAASKPVDDPSM YQLKGAAKVMVNTVTSLLKTVKAVEDEATRGTRALEATIECIKQ ELTVFQSKDVPEKTSPPRESIRMTKGITMATAKAVAAGNSCROB DVIATANLSRAVSDMLTACKQASPHFDVSDVTRALRPFGTIC

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			<p>TLGYLDLLEHVLVILQKPTPELKQQLAAFSKRVAGAVTELIQAA EAMKGTWVDPEPTVIAETELLGAAASIEAAKKLEQLKPRAK PKQADETLDFEEQILEAAKSIAAATSALVKSASAAQRELVAQGK VGSIPANAADDGQWSQGLISAARMVAAATSSLCEAANASVQGH SSEKLISSAKQVAASTAQLLVACKVKADQDSEAMRRLQAAGNAV KRASDNLVRAAQKAAFGKADDDVVVKTKFVGGIAQIIAAQEM LKKERELEERARKKLAQIRQQQYKFLPTLREDEG</p>
6030	3	1777	<p>FPGRGSPALQLEVLICLGLMLERALNVLAPIFYRNIVNLTEN APWNSLAWTVTSYVFLKFLQGGGTGSGTFVSNLRTFLMIRVQOF TSRRVELLIFSHLHLSLRWHLGRRTGEVLRADRGTSVVTGLL SYLVFNVIPTLADIIIGIIYFSMFENAFGLIVPLCMSLYLTLT IVVTEWRTKFRAMNTQENATRARAVDSLINFETVKYYNARSYE VERYREAIKYQGLEWKSSASLVLLNQTNLVIGLGLLAGSLC AYFVTEQKLQVGDYVLPGTYYIQLYMLPLNWFGTYRMIQTNFID MEMMFDLLKK\ZTEVKDLPAGAPPRFQKGRIEFENVHFSYADGR ETLQDVSPPTVMPGQTLALVGPSPGAGKSTILRLLPFYDISSGCI RIDGQDISQVTOALFRFSHWELCPKDTVLNDTIADNIRYGRVT AGNDEVRAAAQAAGIHDAIMAFPEGYRTQVGERGLKLSGGGKQR VAIARTILKAPGITLDEATSDLTSENERAIQASLAKVCANRTT IVVAHRLSTVVNADQILVIKGCIVERGRHEALLSRGGVYADMW OLQQQOESEDSKTPQTMER</p>
6031	160	1694	<p>LRMSENLDKSNVNEAGKSKSNDSEGLEDAVEGADREALQKATKS DSSSPQVRQPHSSPPRFVTEBLETARGVTNMLAHEIVVNG DFQIKPVELPENSLLKRVKIVHKAFWDCLSVQLSEDPFAYDHA IKLVGEIKETLLSFLLPGHTRLRNQITEVLDDLKQBAENGAL DISKLAEFIIGMMGTLCAPARDEBVKKLDIKEIVPLPREIFSV LDLMKVDMANFAISSIRPHLMQSQVEYERKKFQELERQPNSLD FVTQWLEKASEDLMTQYKHALPVGCMAGSGDMPRLSPVAVQN YAYLKLKWDHLQRPFPETVMDQSRFHQLQ\REQTLILGAV LLVTFMSAAPGISQADFAEKLKMIIVKILLTDMHLPSPHLKDV TTIGKVCLEVSCLSLCGSSPFTTDKETVLKGQIQAVASPDPP IRRIMESRLTFLETYLASGHQKPLPTVPGGLSPVQRELEEVAI KFARLVNYNKMVFCPYDAILSKILLVRS</p>
6032	39	2415	<p>AARLCRAQPTKSAMMIRDLSKMYPQTRHPAPHQPAQPPKFTISE SCDRIKEEFQFLQAYHSLKLECEKLAISEKTEMQRHYVMYYEMS YGLNIEMHKQAEIVKRLNAICAVIPIFLSQEHQQQVQVAVERAK QVTMAELNAIGQQQLQAQHLSHGHGLPVPLTPHPSGLQPPAIP PIGSSAGLLALSSALGGQSHLPIDKDEKHHNDHQRDRDSIKSS SVSPSASFRGAEKHRNSADYSSESKKQKTEKEKIAARYDSGGEK SDDNLVVDVSNEDPSSPRGSPAHSPRENGLDKTRLLKKDAPISP ASIASSSSTPSSKSKELSLNEKSTTPVSKSNTPTPTDAPTGPS NSTPGLRPVPGKPPGVDPPLASSLRTPMAVPCPYPTPPGIVPHAG MNGELTSPGAAAYAGLHNISPMSAAAAAAYGRSPVVGFD PHHMRVPAIPNLTGIPGGKPAYSPHVSADGQMOPVPPFDAL IGPGIPRHARQINTLNHGEVVCVATISNPTRHVYTGCGKCVKVV DISHPGNKSPVSQLDCLNRDNYIRSCRLLPDGRITLVGGEASTL SIWDLAAPTPTRIKARLTSSAPACYALAI SPDSKVCFCSSDGN AVWDLHNQTLVRQFQGHITDGASCIDISNDGTLKWTGGLDNTVRS W\DLREGRQLQHD/FFTSPVFLGYCP\TEEWLAVGMENSN/V EVLHVTKPKDYQLHLHESCVLSLKFAHCGKWF\VSTGKDNLLNA W\RTPYG\ASIP\QSKSSS\VLSCDI\SVDDKYIVTGS\GDK\ RATVYEVY</p>
6033	39	2415	<p>AARLCRAQPTKSAMMIRDLSKMYPQTRHPAPHQPAQPPKFTISE SCDRIKEEFQFLQAYHSLKLECEKLAISEKTEMQRHYVMYYEMS YGLNIEMHKQAEIVKRLNAICAVIPIFLSQEHQQQVQVAVERAK QVTMAELNAIGQQQLQAQHLSHGHGLPVPLTPHPSGLQPPAIP PIGSSAGLLALSSALGGQSHLPIDKDEKHHNDHQRDRDSIKSS SVSPSASFRGAEKHRNSADYSSESKKQKTEKEKIAARYDSGGEK SDDNLVVDVSNEDPSSPRGSPAHSPRENGLDKTRLLKKDAPISP ASIASSSSTPSSKSKELSLNEKSTTPVSKSNTPTPTDAPTGPS NSTPGLRPVPGKPPGVDPPLASSLRTPMAVPCPYPTPPGIVPHAG</p>

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			MNGELTSPGAAYAGLHNISPMASAAAAAAAYGRSPVVGFD PHHIMRVPAIPNLTGIPGGKPAYSEHVSADGQMPPVFPFDAL IGPGIPRHARQINTLNHGEVVCVATISNPTREHVTGGKGCVKVW DISHPGNKSPVSLDCLNRDNYIRSCRLPDGRTLIVGGEASTL SIWDLAAPTPIKARLTSSAPACYALAI SPDSKVCSCCSGDI AVWDLHNQTLVRQFGHFDGASCIDISNDGTLKWTGGLDNTVRS W\DLRGRQLQHD/FFTSPVPSLGYP\TEBWLAVGMENSN\V EVLHVTKPKYQLHLHESCVLSLKFACGKWF\VSTGKDNLLNA W\RTPYG\ASIF\QSKSSS\VLSCDI\SVDDKYIVTGS\GDK\ RATVYKVIY
6034	2683	714	ESGRRRLKRRRSPCPGTAGGPGETNPGPGACPRGPREEAAAAM EIAPOEAPPVPGADGDI EAPAEAGSPSPASPPADGRKAAAKR VTFPSDEDIVSGAVEPKDPWRHAQNVTVDRVIGAYKQACQKLN RQIPKLLRQLQEFITDLGHRDLCLDLKGEKLDYKTCRALREVFKR LQFKVVDLEQTNLDEGASALFDMIEYYESATHLNI SFNKHIGT RGWQAAAHMMRKTSCLOYL\DARNTPLLDHSAFFVARALRIRRS LAVIHLNENASLSGRPLMLLATAIKMMNLREYL\ADNKLNGLO DSAQGLNLLKFNCSLQITLDRNNHVLDSGLAYICBGLKQKRL VTL\VLWNQLTHTGMAFLGMLPHTQSLTILNIGHNPIGNEGV RHLKNGLSINRSVLRGLASTKLTCEGAVAVAEFIAESPRILLRL DLRENIKTGGLMALSALKVNHSLRLDLDRPKKEAVKSFIE TQALLAETONGCKRNLVLAREREKEQPPQLSASMPETTATBP QPDDEPAAGVQNGAPSPAPSPDSDSDSGDEEBEERGERDET PSGAIDTRDTSSEPQPPPPRSGPPLPGLKPEFALALPPEP PPGPEVKGSGCGLEHLSCKNEKELEELLLEASQESQETL
6035	19	404	SVTYLGIILHKNLTGALPADPVQLISQTPFSTKQQLLSPLGMVG YFYLWIPGFAITKPLCKLTENLADIDPKSFSHSSFRSLKTA LENASTLALPDSSQPF\SLHTARVQCVVEILTQGLPLPV
6036	1745	356	LPDVEKLGRRRGRKMSVEKGAATSVSNPRGRPSRGRPPKLRN SRGGQGRGVKPPHLLAALILARGGSKGIPKNIKHLAGVPLIGW VLRAALDSGAFQSVWVSTDHDEIENVAQFGAQQVHRSSEVSKD SSTSLDAIIEFLNYHNEVDIVGNIQATSPCLHPTDLQKVAEMIR EEGYDSVFSVVRHQFRWSEIQKGVREVTEPINLNPARRPRQD WDGELYENGSPFYFAKRHLIEMGYLQGGKMAYYEMRAEHSVDIDV DIDWPFAEQRLVRYGYFGKEKLKBIKLLVCNIDGCLTNGHIYVS GDQKRIISVDVKAIGISLLKSGIEVRLISERACSKQTLSSLK LDCKMEVSVSDKLAVVDWRKEMGLCKEVAYLGNESVDEECLK RVGLSGAPADACSTAQKAVGYICKNGGGA\IREFAEHIC\LL MEKGLINFMFKNRNLAVNIOEKK
6037	2936	1919	WTSWMMSSVLTILLFSLQGNKMLNYSAPSAGGYLLPRKPVGT GGFPRRHSVTLPSKFRQNLSSLKGEPAALSSRDSRFRDR SFSEGGERLLPTQKQPGGQVNSSRYKT\ELCRPFENGACKYK DKCQPAHGIEHLSLTHRPKYKTELCTFHTIGFCPYGPRCHFI HNARERRALAGARDLSADRPRLOHSPSFAGFPSSAAATAATGLL DSPTSITPPPILSADDLLGSPTLPDGTNNPF\AFSSQELASLEA PSMGLPGGSPFTTFLFRPMSESPEMFDSPPSPQDLSLQEGYLS SSSSSHSGSDSPTLDSNRRLPIFSRLSISDD
6038	1450	426	SSALQEFGRNHTFGVPLPHRRKQITSCNICQLRFNSDSQAAAH YKGTKHAKKLKALEAMKNQKSVTAKDSAKTFTSITNTINTS SDKTDGTAGTAPASTTTTVEIRKSSVMTTETSKVEKSPPTATG NSSCPSTETEEBKARLL\YCSLCKVAVNSASQLEAHNSGTCHK TMLEARNSGSTIKAPPRAGVKGKGPVNKGNTGLQNKTFHCBICD VHVNSSETQLKQHISRRHKDRAAGKPKPKYSPYNKLQKTAHPL GVKLVPKSPKPLAPRILENPLAAAAAAAVAVSSPFLRTAP AATLQTSALPALLKPAKGPRTAHTPVLFAPY
6039	4073	1000	LDEYEARLTLANLDDPFEDNEDDENRVNQEKAAKITELINKL NFLDRAEKDLATVNSNPFDDPAEELNPFDDPDEEPTITETASP RKTEDSFYNNYNPFKEVQTPQYLNPFDEPEAFVTIKDSPPQST KKKNIRPVDMSKYLADSSKTEEBELEDENPFYEPKSTPPPNL VNPVQLETERVRKAPAPPVLSPKTGVNENTVSAGKDLSTS

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			PKPSPIPSPVLGRKPNAQSLLVNCKEVTKNYRGVKITNPTTSW RNLGSCAILHFRPDLDYKSLNPQDIKENNKKAYDGFASIGI SRLLEPSDMVLLAIPDKLTVMTYLYQIRAHFSGQELNVVQIEEN SSKSTYKVGNYETDTNSSVDQEKPYAELSDLKREPELQQPISGA VDFLSQDDSVFVNDSCVGESESEHQTPDDHLSPTASPYCRRTK SDTEPQKSQSSGRTSGSDDPGICENTDSTQAVLLGKKRLKKA ETLELSDLYVSDKKKQMSPPFICEETDEQKLTLDIGSNLEKEK LENSRSLECRSDPESPICKTSLSPSTSKLGYSTSRDLDAKKKHA SLRQTESDPPADRTTLNHADHSSKIVQHRLLSRQELKERARVL LEQARRDAALKAGNKHNTNTAAPPFCNRQLSDQQDEERRRQLRR ARQLIAEARSSEKMSLPYSGERAACKLKERSKASGDENDNIEI DTNEEIPGFFVVGCGDELNTLENDLTPHONSXLVDLKLKLLS VQPVVANGSPSSAAQKAVTESSEQDMKSGTEDLRTERLQKTERF RKPVVFSKDSVTRKTLQSFQSYIENRPEMKRQRSIQEDTKKGN EKAATITETQRKPSDEVLNKGFKDS\SQYVVGELAALENEQKQ IDTRAALVEKRLRYLMDTGRNTEEEAMMQEWFMLVNNKALIR RPNQLSLLEKHEHLEKRYELNRELRLAIAIEDWQKTRAQKRR QLLLDE\VALVNRDALVRDIJAQEKQAEDEHLEKRTLEQNKG KMAKKEKCVLQ
6040	475	1052	PTALMTAPSCAFFVQFRQPSVSGLSQITKSLYISNGVAANNKLM LSSNQITMVINVSVEVVNTLYEDIQYMQVFPVADSPNSRLCDFFD PIADHHSVEMKQGR\TLHCAAGVSRSAALCLAYLMKYHAMS LDAHTWTKSCRPIIRPNSGFWEQLHYEQFLGKNTVHMVSSPV GMIPDIYEKEVRLMIPL
6041	2	3886	TERDEKTAHNLENVLIHFWERLSEICVAKISEFEADVESVLGVS NLLQVLQPKGSLKSSKKKNGKVRPADEILESNKNEKCVSSEG EKIECWELTTEPSLTHNSSGLLSPLRKKPLEDLVCKLADISINY VNERKSEQHLRFLSTLLDSFSSSRVFKMLGDEKQSIQVAKPLE IAKLQKNPAVQFLYQKLGWLNEDQKDFGLVDILYSALRCC DNDMERKKVLDLTKVDLKWNSLLKIIIEKACPSSDKHALVTPWL KGDILGEKLVNLADCLCNEDLESRSVSESHFSERWTLLSLVLSQ HVKNDYLGIDVYVERIIVRLHETLFTKTKLSEARSSDSSVSFIC DVAYNYFSSAKGCLLMPSSSEDLTLTLFQLCAQSKKETHLPDPLI CKLNTWLSGVNLVHQTDSSYKESTFLHLSALWLNQVQASSL DINSIQVLLSAVDDLNTLLESEDSYLMGVYIGSVMPNDSEWEK MRQSLPMQWLHRPLLEGRLSLNYECFKTDFKQDIKTLPSHLCT SALLSKMWLIARLKRRTVLKNELEKTLAELLYSLQWCEBLDNP IFLIGFCEILQKMNITYDNLRLVGNMGLLQLLFNRSREHGTW SLIIAKLILSRSSISSEDEVKPHYKRKESFFPLTEGNLHTIQSLCP FLSKEKKEKFSAQCIALLGWTKKDLCSNMGFGHLAIFNSCLQ TKSIDDGEHLHGILKIIISWKKEHROIPLFSCNLSRASPVLGV NIEIIRFLSLFLKYCSSPLAISEWDFIMCSMLAWLETTSENQAL YSIPLVQLFACVSCDLACDLSAFFDSTTLDTIGNLPVNLISEWK EFFSGGIHSLLLPILVTVTGENKDVSETSFQNALKPMCSLTLY ISKEQLLSHKLPAVLVADQKTNLPEYLQTLNLTAPLLFRARP VQIAVYHMLYKLMPELPQYDQNLKSYGDEEPEALSPPAALMS LLSIQEDLLENVLGCI PVGQIVTIKPLSEDFCYVLGYLLTWKLI LTFPKAASSQLRALYSMYLRKTKSLNKLHYHLFRLMPENPTYAK TAVEVPNKDPKTPFTEELQLSIRETTMLPYHIPHLACSVYHMTL KDLPAWVRLWVNSSEKRVFNIVDRPTSKYVSSVLSQBISSVQT STQLENGMTVKARATTREVMATYTTIRDIVIELIQLPSTNYPLGS IIVESGKRVGVAVQQRNWMQLSTYLTQNGSSIMEGLALWKN VDRRFEGVEDCMICFSVIEGPNYSPLPKKACRTCKKHFSA\CLY KWFSTSNKSTCSLCRETF
6042	1306	253	MARLAPASPSDIKASVNSGDTLLCSRRQSCGMNEVRQVSLTYP GSPAPSHSLPLQPRSGGSLCPSRAW/PDPHQLFDDTSSAQSRGY GAQRAPGGLSVPAASPTPHAAFLADPVSNMAMAYGSSLAQKKE LVDKNIDRFIPITKLKYYFAVDIMYVGRGLGLFPFYLHQDWEV QYQDTPVAPREFDVNAPDLYIPAMAFITYVLVAGLALGTQDRFS PDLLGLQASSALAWLTLEVLAILLSLYLVTVNTDLTTIDLVAFL GKYKVMIGGVLMGLLFGKIGYLLVWGCVCAIFVFMIRTLRLK

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6043	403	599	TLADAAAGVPPVRGARNQLRMVLTMAVAAAQPMIMYWLTHLVR LCLFFFPFCATPVLPLPSLISAL/CLSHLSVSSWFCPCQPLPC PLPPLONKTAKGSLSTEQSERG
6044	793	412	KLEMMNFTLISKVKISREVTMIASKFGIGQQVRHSLGVLGVV DIDPVYSLSESPDELAVNDELRAAPWYHVVMEDDNLVPHVYL AEAQLSSBLQDEHP\BQPSMDELAQTIRKQLQAPRLRN
6045	155	2299	SPLPQVAAMNYLRRRLSDSNFMANLPNGYMTDLQRQPPPPPPG AHSPPGATPGPGTATAKRSSGVA PAASPAAPSPGSSGGGFFSSL SNAVKQTAAAAATFSEQVGGSGGAGRGGAASRVLLVIDEPHT DWAKYFKGKIHGBIDIKVQABFSDNLVAHANGGFSVDMENVL RNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGIPS VNSLHSVNFCDKPVVFAQMVRLHKKLGTEEFPLIDQTFYPNHK EMLSS\TTYPVVVMGHTLWGWKVKVDNQHDQDIASVVALT KTYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWKNTGSA MLEQIAMS DRYKLWVDTCSIEFGGLDICAVEALHGKDRDHIIE VVGSSMPLIGDHQDEKQLIVELVVNKAQALPRQRQDASPRG GSHGQTPSPGALPLGRQTSQQPAGPPAQORPPQGGPPQPGPGP QRQGPPLQORPPPPQGGHLSGLPGPAGSPPLPQLPSPTSAPQQP ASQAAPPTQGGQRQSRPVAGGPGAPPAARPPASPSQRQAGPPQ ATQTSVSGPAPPKASGAPPQGGQRRQPPQKPPGPAGPTRQASQ AGPVPTGPPPTTQPPRPSGPGPAGRPKPQLAQKPSQDVPPATA AAGGPFPHQLNKSQSLTNAFNLPEPAPPRPSLSQDEVKAETIRS LRKSPASLPSD
6046	212	1075	EGLTGPCERVFPFLGRGPPHAGTRAGHRAVRWAGPESLPLPR SLIMDSPRAGTHQGPLDAETEVGADRCTSTAYQQRQVEQVKG QAPLS?GLPAMGGPGPGPCEDPAGAGGAGAGGSEPLVTVTQCA FTVALRARRGADLSSLRALLGQALPHQ\AQLGQLSYLAPGEDGH WVPIPEEESLQRANQDAACPRGLQLQCRGAGGRPVLYQVVAHQ SYSAQGPEDLGRQGDVTVLCEVDQAWLEGHCDGRIGIFPKCF VVPAGPRMSGAPGRLEPRSQGDQP
6047	49	1405	PVLVTSLRMREADTLRPPQIMEVSADIISTVEPNHTGELLATGD KGRVVIHQREPESKNAPHSQGBYDVYSTFQSHPEPFDYLSLE IERKINKIKWL PQQNAHSLSTNDKTIKLWKITERDKRPEGYN LKDBEGKLDLSTVTSLSQVFLKPMDLMEVSPRRIFANGHTYH INSISVNSDCETYSADDLRLNLWHLAITDRSFTP\NIVDIKPA NMEDLTEVITASEFPHHCNLFVYSSSKSLRLCDMRAALCDK ESKLFEEPEPDSNRSFFSEIIS\SVSDVKFSSHDRYMLTR\DYL TVKVDL\NMBARPIETVQVHDYLRSLKSLSYENDCIFDKFECA WNGSDSVIMTGA\YNNFFRMFDRNTKRDVTL\EASRESSKPRAV LKPRRVCVGGKRRRDDISVDSLDFTKKILHTAWHPAENTIIAIAA TNNLYIFQDKVNSDMH
6048	1	3194	GIRTPKFCDSPTSDLEMRNORGRGRMRPNSTNPVNETATASDS KGTSSNSKTRAGANSKRRGSSQNSSBHRPPASSTSEDKASPSS ANKRKNKPLSDMELNSSSEDSKCSKRVRTNSMGSATGPLPGTKV EPTVLDNRNCPSPVLDCPHFNCNKYKHINGLYHQAHATDDD SKPEADGDSEYGEERILHADLGSCNG\ASVSQK\GSLSPARSAT PKVRLVEPHSPSPSSKFSTKGLCKKKLSGEGDIDLGLSNDGSD DGPSVMDETSNDADFSLERKCKEKECKKPSLKEKIPSKSLK SARPI/APLAIPPQIYTPQTATFTAASPGSSSGLTATVAQAMP NSPQLKPIQPKPTVMGEPTVNPALTPAKDKKKKKKKKSSKE LESPLTPGKVCRAEGKSPFRESSGNGMKMGLLNGSSDPHQSR LASIKAEADKIYSFTDNAPSISIGSSRLNTTPTQPLTPLHV TQNGABASSVKTNSPAYSDISDAGEDGEGKVDVSKSDARQLVK EGAKKTLFPPQPSKDSPIYQGPESYSPSYAQSSPGALNPSSQ AGVESQALKTKRDEBPESIEGKVNDICEKKPELSSSSQPSV IQORPNMYMQSLYYNQYAYVPYGYSDQSYHTLLSTNTAYRQ YEEQQKRQSLGQQQRGVDKKAEMGLKEREAAKKEWKQKPSIPP TLTKAPSLTDLVKSQPGKAKEPGADPAKSVIIPKLDSSSKLPGQ APEGLKVKLSDASHLSKEASEAKTCAECGRQAEMDPILWYRQBA EPRMWTYVPAKYSDIKSEDERNKEERDRKLKEERSRSKDSVPK

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			EDCKESTSSDCKLPTSEESRLQSKPRPSVHVFPVSSPLTQHQSYPYMHGYSYQSYDPNHPSTYRSMMPAVMMQNYPGSYLPSSYSFSPYGSKVSGGEDADKARASPSVTCKSSSESKALDILQHASHYKSKSPITSDKTSQERDRGGCGVVGGGGSCSSVGGASGGERSVDRPRTSPSQRLMSTHHHHHLGYSLPAQYNLPAAGLSSTAIVASQQGSTPSLYPPRR
6049	215	1089	AMTGVFDRRVPSTIRSGDFQAPFQTSAAHHHPQSQESPTLPESATDSQYYSPTGGAPHGYCSPTSASYG\KALNPYQYQYHGVNGSAGSYPAKAYADYSYASSYHQYGGAYNRVPSATNQPEKEVTEPEVRMVNGKPKVKRKERTIYSSPOLAALORRFQKTOYLALPERAELAASLGLTQTQVKINFQNKRSKIKKIMKNGEMPPEHSPSSSDPMACNSPQSPAVMBPQSSRLSHHPAHAPTNSQSPASSYLENSASWYTSAASSINSHLPPGSLQHPALASGILY
6050	566	1718	XGLERTCCAMEESDSEKTTTEKENLGPRMDPPLGEPG\GSLGWLPNTAMKKKVLMLMGKSGSGKTSMRSIIFANYIARDTRRLGATILDRIHSLQINSSSLSTYSLVDSVGNKTTFDVEHSHVRFLGNLVLNLWDCCGGQDTFMENYFTSQRDNIERNVEVLIYVFDVESRELEKDMHYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQDRLIFKREEDLRRLSRPLECSCFRTSIWDETLYKAWSSIVYQLIPNVQOLEMNLRFABIIEADEVLLFERATFLVISHYQCKEQORDAHRFEKISNI IKQFKLSCSKLAASFQSMEVNRNSNFAAFIDIFTSTNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPKQCLLMR
6051	566	1718	XGLERTCCAMEESDSEKTTTEKENLGPRMDPPLGEPG\GSLGWLPNTAMKKKVLMLMGKSGSGKTSMRSIIFANYIARDTRRLGATILDRIHSLQINSSSLSTYSLVDSVGNKTTFDVEHSHVRFLGNLVLNLWDCCGGQDTFMENYFTSQRDNIERNVEVLIYVFDVESRELEKDMHYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQDRLIFKREEDLRRLSRPLECSCFRTSIWDETLYKAWSSIVYQLIPNVQOLEMNLRFABIIEADEVLLFERATFLVISHYQCKEQORDAHRFEKISNI IKQFKLSCSKLAASFQSMEVNRNSNFAAFIDIFTSTNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPKQCLLMR
6052	566	1718	XGLERTCCAMEESDSEKTTTEKENLGPRMDPPLGEPG\GSLGWLPNTAMKKKVLMLMGKSGSGKTSMRSIIFANYIARDTRRLGATILDRIHSLQINSSSLSTYSLVDSVGNKTTFDVEHSHVRFLGNLVLNLWDCCGGQDTFMENYFTSQRDNIERNVEVLIYVFDVESRELEKDMHYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQDRLIFKREEDLRRLSRPLECSCFRTSIWDETLYKAWSSIVYQLIPNVQOLEMNLRFABIIEADEVLLFERATFLVISHYQCKEQORDAHRFEKISNI IKQFKLSCSKLAASFQSMEVNRNSNFAAFIDIFTSTNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPKQCLLMR
6053	201	1704	KGTEMNKSRRQSRRRHGRSSHQNPWFRLRDSRSDSRRAQPAHDSGHGDDSPSTSSGTAGTSSVPELPGFYFDPEKKRYFRLLPGHNNCNPLTKESIRQKEMBSKRLRLQEEEDRKKIARMGFNASMLRKSQGLFNLVNTNYCHLAHELRLSCMERKKVQIRSMDSALASDRNLILADTNSDRLFVNDVTVGSKYGIINLQSLKTPILKVFMHENLYFTNRKV\NSVCWASLNHLDSHILLCLMGLARTPGCATLLPASLFFVNSHPAGIDRPG\MLCSFRIPGANSCAWSLNIQANNCFSGLSRRVLLTNVVTGHRQSGFNTSDVLAQQFALMAPLLFNGCRSG3IFAIDLRCGNQCKGWKATRLFHDSAVTSVRILQDEQYLMASDMAGKIKLWDLRTTKCVRQYBGHVNEYAYLPIHVHBEGLVAVGQDCYTRIWSLHDARLLRTIPSPYPASKADIPSVAFSSRLGGSRGAPGLLMVAGQDLYCYSYS
6054	1	1054	PPIARLQEFGTSSRRHMAAPSGVHLLVRRGSHRIFSSPLNHIYLIHKOSSSQQRNFFRRQRDISHSIVLPAAVSSAHPVPKHIKKPDYVTTGIVPDWGDSEIVKNEQIQGLHQACQLARHVLLLAGKSLKVDMTTEBIDALVHREIISHNAYPSPLGYGGFPKSVCTSVNNVLCHGIPDSRPLQDGDIIINDVTVYNGYHEDTSETFLVGNVDECGKKLVEVARRCRDEAIAACRAGAPFSVIGNTISHITHQNGFQVCFPEVGHGIGSYFHGHPKIWHHANDSDLPMEEGMAFTIEPIITEGSPHFKVLEDANTVVS LD/TSKVSAQFHTVLI TSRAQILITKLPHEA

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6055	421	2364	PPYFLLSFLAWNLVGQSDRTETDISQSAGPPFGTLQCSALHHDPCANCSSRFCDSPACQCHTHVFPGNALNGVQPPBLSRTLALISSREPPRRKKKSQTETGKERERTSYLTQGGKRFELQHLGAGICMTLLITGDSIVSAEAVWDHVTMANRELAFKAGDVIKVLDASNKDWNWQIDDEEGNFPASFVRLWVNHDEVEZEGPSDVQNGHLDPNSDCLCLGRPLQNRDQMRANVINEIMSTERHYIKHLKIDICEGYLKQCRKRRDMFSDEQLKVIPIGNIEDIYRFQMGFVRDLEKQYNNDDPHLSEIGPCFLBHQDFWYIYSEYCNNHLDACMELSKLMKDSRYQHFFRACRLLOQIDIA\IDGFLITPVQKICKYPLQLAELLKTYAQDHSYRYVAAALAVMRNVTTQINERKRRLENIDKIAQWQASVLDWEGEDLDRSSELIYTGMAWYQPYGRNQQRVFFLEDHQMVLCKKDLIRRDILYYKGRIDNDKYEVVDIEDGRDDDFNVSMKNFVLHNKETEBIHLFFAKKLEBKIRWLRAFRBERKMWQDEKIGFEISENQKROAMTVRKVPKQKGVNSARSVPPSPYPPQDPLAHGQYLV\DGIAQSQVFETPEPKRSQSPFWQNFSLTPFKK
6056	43	3358	SGGRGPPVRVRSEQLSPSAEQVSQISQISLGRPLSSLPPPPSRALAPTRAPDTALTMEVAESVSPINPSCKIMTFRPSMEBFREFNKYLAYMESKGAHRAGLAKVIPPKKWKPRQCYDDIDNLLIPAPIQQMVTGQSGELFTQYNIQKAMTVKRFROLANSKYCTPRYLDYBOLERKYWKNLTFVAPIYGADINGSIYDEGVDEWNIARLNTVLDVVEKCGISIEGVNTPYLYFGMNKTFPAWHTEDMDLYSINYLHFGEPKSWYAI\PEHGRRLERLAQGFPPSSSQCDAPLRHKMTLISPSVLKKYGI\PFDKITQAGEFMITFPYGYHAGFNHGFNCAESTNPFATVRWIDYGVAKLCTCRKDMVKISMDIFVRKPPQDRYQLWKQKQDITYIDHTKTPASTPEVKAWLQRRRKVRKASRSFQCARSTSKRPKADREEVSDVDGABVFNPDVTDLLKVSEKSEAAVKLRNTEASEEESASRMQVEQNLSHDKLSCNCLSTSVTEIDKTEDDKAYAYRSVPSISSEADDSIPLSTGYEKPEKSDPSKLSWPKSPESCSVAESNGVLTGEESDVESHNGLEPGEIPAVPSGERNSFKVPSIAEGENKTSKSWRHPLSEPPARSMTLVKQQAAPSDEELPEVLSEIEEVETESWAKPLIHLWQTKPPNFAAEQEVNATVARMKPHCAICTLLMPYHKPDSSNEENDARWETKLDEVVTSEGKTKPLIPEMCFIYSEENIEYSPNAPLEEDGTSLLISCACCCVRVHASCYGIPSH EICDGLCARCKRNANTAECLCNLRGALKQTKNNKWAHVMCAVAPVEVRFTNVPERTQIDVGRIPLQRLKLCIFCRHRVKRVSGACIQCSYGRCPASFHVTCABAAGVL\MEPDNPFYVNIITCFRHKV NPNVKSACRKKVISVGQTVITKHNTRYYSRVMVAVTSQTFFYEV MPDGSFSRDTFPEDIVSRDCLGPPAEGEVVQVKNPDGKLYG AKYFGSNIAMHYQVEFEDGSQIAMKRBDIYTLDEELPKRVKARFVSAGRCHLGTCCQVNSLSSPHVSQAQQTETYLGFWINSKKSQCNI\FLSGTY
6057	1	853	FVARLKEQEGEGGLPRKEKGRARGRRRRRMQLTRCCFVFLVQGSLLYLVIQGGDDPGGSEDPERDDHEGQPRPRVPRKRGHISPKSRPMANSTLLGLLAPPGEAWGILGQPPNRPNHSPPPSAKVKI\EGWGDYFSNIKTVALNLLVTGKIVDHGNGTFSVHPQHNAATGQGNISISLVPPSKAVEFHQEQIFIRAKASKIFNC\RMWNEKVE\RGERR TSLFTHDPAKICSRDHAQSSATWSCSQPPKVVCVYIAPYSTDYRLVQKVCDDYNYHSDTPYYPG
6058	1	986	HPLPSASLGLPSVSLGVSLCVRSALLEAVVPMLEKRRRARVGSFSGDAASSTPPSTRFPVVAIYLVEPRMGRSRAFLTGLARSKGFRVLDACSSEATHVMEETSABEAVSNQERRMAAAPPCTPPALLDISNLTESLGAGQVPVVECRHRELVAGPSKGPLSPAWMPAYACQRPPLTHHTGLSEALEILAEAGPEGSEGRLLTFCRAASVLRALPSPVTTLSQLQGLEPHFGHSSRVVOELLEHGVCBEVERVRRSE/RLFTQIFGVGVKTADRWRBGLRTLDDLRBQPKLTQQQKAGEPSREAGPWASLNLCTLDPSASTP
6059	2	3650	QQDFESLADLTDHRAHRCPGDGGDDPQLSWVASSPSSKDVASPTQMIGDCDLGLGEEEGGTGLPYPCQFCDKSFIRLSYLKRHEQIHSDKL\PFKCTYCSRLFKHKRSRDRHIXLHTGDKKYHCHCEAAFSRSDHLKIHLKTHSSKPPFKCTVCKRGFSSTSSILQSHMQAHKKNKEHLAKSEKRAKDDFMCDYCEDTFSQTEBLEKHVLTTRHPQLSEK

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			ADLQCIHCPEVFDENTLLAHIHQAANQKHCPMCPE/QPSSV EGVYCHLDShRQPDSSNHSVSPDPVLGSSVASMSSATPDSSASV ERGSTPDSTLKLPLRGQKKMRDDGQGWTKVVYSCPYCKSRDFNSL AVLEIHLKTIHADKPOQSHTCQICLDSMPTLYNLNEHVRKILHKN HAYPVMQFGNISAFHCNYCEMFADINSLOEHIRVSHCGPNANP SDGNNAFFCNQCSMGFLTTESSLTEHIQ/Q\AHCSVGSACKLESVP VOPTQSFMEVYSCPYCTNSPIFGSILKLTKEIKENHKNIPLAHS KKSKAEQSPVSSDVEVSSPKRQRLSASANSISNGEYPCNQCDLK FSNFESFQTHLKLHLELLLRKQACPQCKEDFDSQESLLOHLTVH YMTTSTHYVCESCDKQFSSVDD/LQKH\LLDMPHPLCCTHCT/L CQEVFDS/KVSI/QVHLAVKHSNEKKMYRCTACNWDPRKEADLO VHVKHSHLGNPAKAHKCIPCEGTFSTEVELQCHITTHSKKYNCK FCSKAFHAIILLEKHLREKHCVFDAATENGANGVPPMATKKAE PADLQGMILLKNPEAPNSHEASEDDVDASEPMYGCDCIGAAATME VLLQNHRLRDHNRPGEDDGSRRKAEFIKGSKCNVCRRTPFSE NGLREHLQTHRGPAKHYMCPIGGERFPSSLTLTEHKVTHSKSLD TGTCRICMPLQSEEEPIEHCCMHDPDLRNSLTGFRCVVCMQTVT STLELKIHGTFFHMQLAGSSAASSPNGQGLQKLYKCALCLKEFR SKODLVKLDVNGLPYGLCAGCMARSANGQVGLAPPEPADRPCA GLRCPECSVKFESAEDLESHEMQVDHRLTETSGFRKGTQTSFPV PRKTTYQCICKQMTFENEREIQIHVANHMBEGINHECKLCLCNQ FDSPAKLLCHLIEHSFEGMGGTFCPCVCTVFVQANKLQQHIFA VHQEDKIYDCSQCPQKFFQTELOHNTMSQHAQ
6060	2145	202	SYETVGKNIKLEVNHSQKALCKCSLPSRLPLGELNPLLDRCFR KEPRSRGSRERDNLMLHHSCLCFRSLPAMLAVLLSLAPSASS DISASRPNILLMADDLGIGDIGCYGNNTMRTPNIDRLAEDGVK LTOHISAAALCTPSRAFLTGRYFVRSGMVSSIGYRVLQWTGAS GGLPTNETTFAKILEEKGYATGLIGKWHGLNLCESASDHCHPL HHGFDHFYGMPPSLMGDCARWELSEKRVNLEQKLNFLQVLA ALTLVAGKLTHLIPVSWMPVIWSALSALLASSYFVGAIVHA DCFLMRNHTITEQPMCFQRTTPLLQEVASFCKRNKKGFPFLFV SFLHVHIPLITMENFLGKSLHGLYGDNVKEMDMVGRILDLDV EGLSNSTLIYFTSDHGGSLNQLGNTQYGGWNGIYKGGKMGGW EGGIRVPGIFRWPGVLPAGRVIGREPTSLMDVFPTVVRLAGSEVP QDRVIDGQDLLPLLLGTAGHSDEFLMHYCEFLHAARWHQRDR GTMMKVHFVTPVFQPEGAGACYGRKVCPCFGEKVVHBDPFLLED LSRDPSETHILTPASSPVFYQVMER/VQQAWEHQRTLSFVPLQ LDRLGNIWRPWLQPCCGPPLCWCCLREDDPQ
6061	110	1330	MNIHMKRKTIKNTFENRMLMLDGMBAVRVKTRELESEBOGSPN VHNYPDMEAVPILLNNVKGEPEDSLSDVDFQTQTEPVDLSINK ARTSPTAVSSSPVSMASASSPSTSTSSSSSLASSPTVITS VSSASSSTVLTPOPLVASASGVGGQQLHI.IHPVPPSSPMNLQ SNKLSHVHRIPVVVQSVFVVYTAVRSPGNVNTIVVPLEDGRG HGKAQMDPRGLSPRQSKSDSDDDLPNVTLDVNETGSTALSIA RAVQEVHPSVSRVRGNRMNNQKPPCSISPFSIESRRQRTVLN PPDSRKTAYSTDCDF/EGLQKLYTKSSSPGRVHRRTHTGERPY KCTWEGCTWKFAKRSDELTRHYRKHTGVKPKACDCDRSFRSDH LALHRRRMLV
6062	71	1079	ETMAKNGPENCEDCHILNAAFAKSKKICKSLKICGLVFGILALT LIVLFWGSKHFWPEVPKAYDMEHTFYSNGEKKIYMEIDPVTR TEIFRSGNGTDEILEVHDFKNGYTGIIYFVGLQKCFIKTQIKVIP EFSEPEKEIDENEIITTFEQSVIWPAAKPIENRDFLNSKI LEICDNVTMYW\INPTL\ISGTFKQLHNFAPITLVSSELQDPE EEGEDLHFPAKNEKKGIEQNEQWVVPQVKVETRHARQASEEELP INDYTTENGISFDPMLDERGYCCYICRRGNRYCRRVCEPILGYYP YPYCYQGGRVICRVIMPCNWWVARMLGRV
6063	71	1079	ETMAKNGPENCEDCHILNAAFAKSKKICKSLKICGLVFGILALT LIVLFWGSKHFWPEVPKAYDMEHTFYSNGEKKIYMEIDPVTR TEIFRSGNGTDEILEVHDFKNGYTGIIYFVGLQKCFIKTQIKVIP EFSEPEKEIDENEIITTFEQSVIWPAAKPIENRDFLNSKI LEICDNVTMYW\INPTL\ISGTFKQLHNFAPITLVSSELQDPE

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			EEGEDLHPANERKKGIEQNEQWVVPQVKVEKTRHARQASEBELP INDYIENGIEFFDPMLEDERGYCCICYCRGRNRYCRRVCEPLLGYY YPICYQGGRVICRVIMPCNWWVARMLGRV
6064	913	311	NLPQSLPRPTEHSPYSLKMTDLVAVWDVALSDGVHKIEFEHG TISGKRUVYVDGKEEIRKEWMFKLVGKBTFTVGAATKATINID AISGFAYEYTLINGKSLKKYMEDRSKTTNTWVLEMDGENFRIV LEKQAMDVWCNGKKLETAGEFVDDGTETHFSIGTH\ACYIKAV\ SSG\KRKEGLIHTLIVDNREIPIAS
6065	1153	641	MSVRVARVANVRGIGASYRRGASSFPVPPGAQGVARLLRDATG AEERAPWAATRRRMPGOCVLLFPQGQSQVVMGRGLLNYPVR RLYAAARRVLGYDLLELSLHGPQETLDRTHVCQPAIFVASLAAV EKLHHLQPSVINCVAAGFSVGEFALVFAGAMEFAEG
6066	68	3470	VKENMPATRKPMRYGHTEGHTVCFDSSGSFIVTCGSDGDVRIW BDLDDDDPKFINVGEKAYSCALKSGKLVTAVSNNITQVHTFPBG VDPGILITRETTNANHVVFNGDGTIAAGSSD\PLVKIVDVMDS QOKT?RGHDAPVLSLSDPKDIFLASASCDGSVRVWQISDQTCA ISWPLLQKCNVDINAKSICRLAWQPKSGKLLAIPVEKSVKLYRR BSWSHQFDLSDNFISQTLNIVTWSPCGQYLAAGSINGLIIVWNV ETKDCMERVKHEKGYAICGLAWHPTCGRISYTTAEGNLGLLENV CDPSGXTSSSKVSSRVEKDYNLDFGDGDMNAGDFLNDNAVEIP SFSKGIINDEDEDDLMASGRPRQRSHLEDDENSVDISMLKT GSSLLKEEREDGQEGSIHNPLVTSORPPFYDGMPTPRQKPFQS GSTPLHLTHRFMVWNSIGIIRCYNDEQDNAIDVEFHTDSIHAT HLSNTLNYTIALDSHEAILLACESTDELASKLHCLHFSWSDSSK EWIIDLQONEDITRAICLGQGWAAAATSALLRLFTIGGVQKEVF SLAGPVVSMAGHGEQLFIVYHRTGPDGDQCLGVOLLEIGKKKK QILHGDPLPLTRKSYLAWIGFSAEGTFCYVDSBGIVRMLNRGLG NIWTPICNTRHCKGKSDHYWVVGIIHENPQQLRCIPCKGRFPP TLPRPAVALLSPKLPYCQIATEKGQMEEQFWRSVIFHNHLDYLA KNGVEYESTKQATKEQELLMLALSKLBEREPRCVELADL MTONAVNLAIKYASRSRLILAQKLSLAVEKAELTATQVERE EEEDDFRKKLNAGYSNTATWSQPRFRNQVEEDAEDSGEADDEE KPEIHKPGONSFSKSTNSSDVSAKSGAVTFSSQGRVNPFKVSAS SKEPAMSMNSARSTNLDNMCKSSKSTALSRTTNEKSPIIKP LIPKPKPKQASAASYFQKRNSQTNKTBKVKEENLKNVLSPTAI CPPCNTENQRPKTGPOMLEENRSLNLSNDPDSDEADIIEGEM IRFRVLSTEEKRVWANKANGETASEGTEAKKRKRVRVDESDTEN QEEKAKENLNLSSKKQPLDFTNQLLSAFAPKQE
6067	858	321	LPWQRLGVLLSRCKMAVTGWLESIRTAQKTALLQDGRKRVHYLF PDGKEMAEKYDEKTSLLVRKVRKSAIGAMGQWQLEVGDPAPL GAGNLGPELIKESNANPIFMRKDTKMSFQWRIRNLPPYKDVYSV SVDQKERCIIVRTTNKKYKKFSPIDLRHQLELDDALLSFA\T PTAP
6068	13	1730	GSKMADLANEEKPAIAPPVVFQKDKGQKSPAEQKNLSDSGEER RGRAEAPHHGTGHPESAGEHALEPPAPAGASASTPPPPAPEAQL PPFPRELAGRSAGSSPEGGEDSDREDGNYCPVKKERTSSLTQ FPPSQSERSSGFRLLKPTLIHQAPSAGLPSQKPKQQRSVLR PAVLQAPQPKALSQTVPSSGTNGVSLPADCTGAVPAASPDAAW RSPSEAADEVCLBEKEPQKNESNASEBEACEKKDPATQQAQFV FGQNLDRVKLINESVDADMENAGHPSADTPTATNYFLQYISS SLRNSINSADASSNKVFGQNMSEKRVLSPPKLENVSSDANRENA AAESGSESSSQEATPEKESLAESAAAYTKATARKCLLRKVEVIT GEEAESNVLMQCKLFVFDKTSQSWVERGRGLRLNDMASTDDG TIQSRLSDAGPRGSLR\LIILNTKLAQMQIDKASEK\SIRITAM DNEDQGVKVPFISASSKDTGQVYALHHRILALRSRVEQEQA MPAPEPGAAPSNEEDSDDDVLPAGATAAGAGDEGQGTGTS T
6069	583	27	PTPRGQAGSSSAMAQRLGKRVLSTLQSPSRARGPGGSPGGLOK RHAHVTVKYDRRELQRRLDVEKWDGRLEFELYRGMEADMPDEIN IDELLESESEERSRKIQGLKSCGKPVEDFIQELLAKLQGLHR

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			Q\PLRQPSPT\DGQPSAPFQGGARTASPLTLALFPGPPEP RPALLCVLSCT
6070	478	858	IRVTVDGEFLHYIFPLQFLDSPEW/RFTETHRGHF\QVTLTAE TDCRYVSWRRKKLYLLFAQHRYISRLFSVLIGSDIADKLYALND RVYIGKRYEYDIRLENFYQMSTPEIRRSPLTQHFQNSRRY
6071	2	1654	HEARTKGNMALARP\VRLESLVTRLLAPRRGLTVRSPDEPLPV VRIPVALQRLQEQRRNRNLRPVLVRPGPLLVSAARRPELNQP ARLTLGRWERAPLASQGWKSRARRDHFISIERAQEAPAVRKLK SKGSFADLCANKPRVLHALQE\AAPEVVQ\PTTVQSTIPSLLR GRHVCAAETGSGKTLSTLLPLQLRLG\HPSLDSLPFPAPRGL VLVPSRZLAQVRAVAQPLGRSLGLLVRDLBGGHGMRRIRLQLS ROPSADVIVATPGALWKALKSRLLISLEQLSFLVLEADTLLDZS FLRLVDYILEKSHIAEGPADLEDFPNPKAQLVLVGATFPBGVQ LNKVASPDVTTITSSKLHCIMPHVKQTLRLKLGADKVAELVH ILKHRDRAERTGPSGTVLVFCNSSSTVNWLYILDHKKIQLRL QGOMPALMRVGIFQSFQKSSRDILLCTDIASRGDSTGVELVVN YDFPPTLQDYIHRAGRVRGVSEVPGTVISFVTHPMDVSLVQKI ELAARRRRSLPGLASSVKEPLQAT
6072	1	742	KMERTMMPTINSQLEFKSKPFLVSSSRWLVRGELTAYVEDT VLFSSRTSKQQVYFPLPNDVLIITKKKSESYNVNDYSLRDQLL VESCDNEELNSSPGKNSSTMLYSRQSSASHLFTLVLSNHANEK VMLLGAETQSERARWITALGHSSGKPPADRTSLTQVEIVRSPT AKQDELSQLQADVVLII\YQVSDGWEGER\LRDGERGWFPMR CARKITCOATIDKNVERMGRLIGLETNV
6073	620	860	PCRRLARPLSRPG/SILVHCAGVGSRSATLVLAYLMLYHHLT LVEATKKVKDHRIIPNRGFLRQLLALDRRLRQGLEA
6074	168	1110	PGARCMATELQCPDSMPCHNQVNSASTPSPEQLRPGDLILDHA GGNRASRAKVIILLTGAYHSSLPALDSCACGSSSLNSEGNSGSG DSSSYDAPAGNSFLRDCBSRQIGAQLKLLPMNDQIRELQTIIR DKTAGRGDMFMSADRLIRLVVEEGLNQLPYKECMVTPTPGYKYE GVKFEKNGCVSIRMSGEAMEQGLRDCRSIRIGKILIQSDEET QRAKVYYAKFPDIYRRKVLLMYPILQTG\NTVIEAVKVLIEHG VQPSVILLSLFSTPHGAKSIIQEPFRTITLITTEVHPVAPTHFG QKVFQTD
6075	320	1091	PPTCQPOVEHH\YGYVPLIGNICTLPSRCHQCVIVSSSSHLGT KLGPEIERABCTIRMNDAPTGYSDVGNKITYRVVAHSSVFRV LRRPQEFVNRTPETVIFWGPSPKMQKPGSLVRVIRAGLVFP NMEAYAVSPGRMRQFDDLRGETGDKREKSHSLSTGWFTMVA VELCDHVHVYGMVPPNYCSQRPRLQRMPIHYHYPKGPDECVTYI QNEHSRKNHHRFITEKRVFSSWAQLYGITFSHPST
6076	1721	107	HPSPTEAPRVQHLTMDCTWRILFLVAAATGTHAQVQLVQSGAEV KPGASVKVSCVSGYTLTSLMHWVRQAPGKLEWMAFDPED GETIYAQKPQGRVTMTEDTSTDTAYMELSSLRSEDATVYYCATD HGDYAFDIWCGQTMVTVSSAPTAKDPVPIISGCRHPKDNFPVV LACLITGYHPTSV\TVTWYMGTSQA\QRTFPEIQRRDSYMTS SQLSTPLQWNRQGEYKCVQHTASKSKKEIFRWPESPKAQAASSV PTAQPPAEGSLAKATTAPATTRNTGRGGEKKKKKKKEQERE TKTPECPSHTQPLGVYLLTPAVQDLMLRDKATPTCFVVGSDLKD AHLTWEVAGKVPTGCGVEGLLRHNSGSSQSHSRLTLPRSLWNA GTSVTCTLNHPSLPPQRLMALREPAQAQPVKLSLNLASSDPPE A\ASWLLCEVSGFSPPNILLMWLEDHGEVNTSGFAPARPLEKP\ RSTTFWA\WSVLRVPAPPSPQATYTCVVSHEDSRTLLNASRSL EVSYVTDHGPMK
6077	3687	1268	LIPDMNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQ AGPNCWCNTSTFLQEGMPTARCDLEALKKKKCPDDDIENPR GSKDIKKKNVTNRSKGTAEKLPEDITQIQPQQLVLRLSGEP QTFTLKFKRAEDYPIDLYILM\DLSSYMKDDLNVKSLGTDLMN EMRRITSDFRIGGSPFVEKTVMPYISTTPAKLRNPCTSEQNCTS PFSYKNVLSLTNGKGVFNELVGKQRISGNLDSPEGGFDAIMQVA VCGSLIGWRNVTRLLVFSTDAGFHFAGDGLLGGIVLPNDGQCHL

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			ENMYTMSHYVDYPSIAHLVQKLSNNIQTIPAVTREFQPVYKE LKNLIPKSAVGTLSANSNNVIQLIIDAYNSLSSEVILENGKLS GVTISYQSY\CKNGVNGTGNGRKCSNISIGDEVQFEISITSNK CPKDSDSFKIRPLGFTTEEVEVILQYICECEQSEGIPESPKCH EGNGTFBCGACRCNEGRVGRHCECSTDENVSEDIGCFTARKENQ FQKASNNHGRVPSAGQCVCRRKRDNTNBIYSGKFCEDNPNCDRS NGLICGNGVCKCRVCECNPNYTGSAACDCLDSTCEASNGQIC NGRGICECGVCKCTDPKFGQQTCEMCQTCLGVCAEHKRCVQCRA FNKGEKKDTCTQECSYFNITKVESRDKLPQFPQDPVSHCKSKD VDDCWFFYFYSVNGNNEVMHVVENPECTPGDIIPIVAGVVAG IVLIGLALLLWKLMIIDRRREFAKFEKEKMNKWDGTGENPIY KSAVTTVVNPKYEGK
6078	1426	180	ETEDVMKLEEDLTCPICCSLFDPRVLPCSHNFKCKCLEGLE GSRNLSLWRPVPKCPCTCRKKTFSYWEIPLQVNSLKGIVEKY NKKISPKMPVCKGH\LGQPLNIF\CL\TDMQLDL\CGIC\ATR GEHTKHVFCSLDAYAQERDAFESLFQSFTNRRGDALSRLDTL BTSKRSLQLLTKDSKVKKEFEKLQHTLDQKKNELSDPETMK LAVMQAYDPEINKLNTILQEQRMFNIARAFKDVSEPIVFLQOM QEFREKIKVIKETPLPPSNLPASPLMKNFDTSQWEDIKLVDDVK LSLPQDTGTPIISKIPWSFYKLELLILLGLVIVFGPTMFLEWSL FDDLATWKGCLSNFSSYLTKTADFIQSVFYWEQVTDGFFIPNE RFKNFTLVLMNVVAEPVCKYKLL
6079	1586	141	ATARDLGARRIDRVVMESTPSRGLNRVHLQCRNLQEFGLGLSP GULDRLYGHPATCLAVFRELPSLAKNNVMRLFLEQPLPQAAVA LWVKKBSKAQEBSTGLLSGLRIWHTQLLPGLLQGLYLNPFRQ NLRIALLGGGKAWSDDTSQLGPDKHARDVPSLDKYAEERWEVVL HFMVGSPSAAVSQDLAQLLSQAGLMKSTEPGEPPCITSAGFQPL LLDTPAQLWYFMLQYLQTAQSRGMDLVEILSFLFQLSFSTLGD YSVEGMSDILLNFLOHLREFGLVPQRRKRSRRYYPT/RALAINL SSGVSGAGCTVHQPGFIV\VETNYRLYATSESLQIALIALPSE MLYPPF\NMVV\ARVTR\ESVQQAIASGITAQQI\HFLRTRAHP VMLKQTPVLEPTITDQIRLWELERDLREFTEGVLYNQFLSQVDF ELL\LAHAPKLGVLVFE\NTPAKRLMVVTPAGHSDVKRFWKQK HSS
6080	1	1199	YFTIDHVGEEFAMAQAAGVSRQRAATQGLGSNQNALKYLQDPFK TLRQQCLDSGVLFKDPBFPACPSALGYXDLGPGSPQTQGIWKR PTLCPSPQPIVGGATRTDICCGLGDCWLLAAIASLTLNEBLL YRVVPRDQDFQBNYAGIFHPQLCPPSP\FWQYGEWVEVVIDDR LPTKNGQLLFLHSEQGNFWSALLEKAYAKLNGCYEALAGGSTV EGFEDFTGGISEFYDLKKPPANLYQIRKALCAGSLGCSIDVY SAAAEAITSQKLVKSHAYSVTGVEEVNFQGHPEKLIIRLRNPWG EVEKSGAWSDDAPEWNHIDPRRKEELDKKVEDGEFWMSSLSDFVR QPSRLIEICNLSPDLSLSEEVHKWNLVLPNGHWTRGSTAGGCQNY PGSS
6081	3	865	EMLPILLPLPLIWA/GALAQDARFRIEMPESVTVQEGLCIFVHC SVFYLEYGNKDSIPAYGHNFRGVSVDQETPVATNNSTQKVQKE TQGRPHLLGDPSRNNCSLSIRDARRRDNQSYFFWVARGRTKFSY KYSPLSVYVTALTHRPDILIPFLKSGHPSNLTCSPVWVCRQGT PPIFSWMSAAPTSLGPRTLHSSVLTIIIPRPQDHGTNLICQVTFP GAGVTERTIQLSVSWKSGTVREVVVLAAGVVAVKILLCLCLLI ILSFHKKKAVRAVEVEENVYAVMG
6082	283	1288	EARSFGPTQTRTAPGLAAPGLAQPAALRLLSRPPSAAMDGDGD PESVGPPEASPEEQPEASAEEREPDQOEKEAAAAAY\LDL LPEPLA/LRVLAALPRHE\LVQACR\LVCLRWKELVDGAPLWL LKQQQEGLVPEGGVEBERDHWQFYFLSKRRRNLLRNPCGERDL EGWCDVHGGDGRVVEELPGDSGVEPTHDES VKKYFASSFEWCR KAQVIDLQAGYWEELDDTTPAIVVKDWYSGRSDAGCLYELTV KLLSEHENVLAEPSSGQVAVPQSDSGGWMELSHFTDYGPQVVR FVRFEHGGQDSVYWKGFARVTNSSVWVEP
6083	1865	309	KQWCAERRGLGMSLADELLADLEAAHEEGGSGYEEEEPEAIE

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			DVQEEFTQLDLSGDSVKTIAKLWDSKMFARIMMKIEEYISKQAKA SEVMGPVEAAPRYRVIDANNLTVEIENELNIIHKFIRDKYSKR FPELESIVPNALDYIRTVKELGNSLDCKNNENLQQILTNATIM VVSVTASTTQGGQSLSEELERLEACDMALELNASKHRIEYVE SRMSFIAPNLSIIIGASTAAKIMGVAGGLTNLSKMPACNIMLLG AQRKTLSGFSSTSVLPHTGYIYHSDIVQSLPPIPPPSVAP\DL RRKAARLVAACKTLAARVDSFHSTEGKVGVELKDEIERKFDKW QEPPIPVKQVKPLPAPLDGQRKRRYRKMKERLGLTEIR\KQ ANRMSFGEIEEDAYQEDLGFSLGHLGKSGSGRVQTVNEATKA RISKTQLRTLQKQSVVYGGKSTIRDRSSGTASSVAFTPLQGLEI VNPQAAEKKVAEANQKYPSSMAEFLKVKGEKSGLMST
6084	1865	309	KQWCAERRGLGMSLADELADLEAAKEEERGGSYGEKEERPAIE DVQEEFTQLDLSGDSVKTIAKLWDSKMFARIMMKIEEYISKQAKA SEVMGPVEAAPRYRVIDANNLTVEIENELNIIHKFIRDKYSKR FPELESIVPNALDYIRTVKELGNSLDCKNNENLQQILTNATIM VVSVTASTTQGGQSLSEELERLEACDMALELNASKHRIEYVE SRMSFIAPNLSIIIGASTAAKIMGVAGGLTNLSKMPACNIMLLG AQRKTLSGFSSTSVLPHTGYIYHSDIVQSLPPIPPPSVAP\DL RRKAARLVAACKTLAARVDSFHSTEGKVGVELKDEIERKFDKW QEPPIPVKQVKPLPAPLDGQRKRRYRKMKERLGLTEIR\KQ ANRMSFGEIEEDAYQEDLGFSLGHLGKSGSGRVQTVNEATKA RISKTQLRTLQKQSVVYGGKSTIRDRSSGTASSVAFTPLQGLEI VNPQAAEKKVAEANQKYPSSMAEFLKVKGEKSGLMST
6085	2	1456	SGPRSFQGNRAVGRISLGGKRNPEVTLPGVSSERVRRRRARV GVARVKPGNPWKPSPATQVPR/VPAQVYLPGRGPPLRGEKELVM DEEAYVLVYRAQTGAPCLSFDIRVDHLGDNRTLEPLTYLCAGT QAESAQSNRLMMLRMHNLHGTPKPPSEGSDEEEEDREDEER KPQLELAMVPHYGGINRVVSWLGERPVAGVWSEKQVEVFAIR RLLQVVEBPQALAAFLRDEQAQMKPIFSPAGHMGEGFALDWSPR VTGRLLTGDCQKNIHLWTPTDGGSWHVDQRPVGHTRSVEDLQW SPTENTVFASCSADASIRIWDIRAAPSKACMLTTATAHDGDVNV ISWSRREPFLSGGDDGALKIWDLRQFKSGSPVATFKQHVAVPT SVEWHPQDSGVFAASGADHQITQWDLG/IVERDPEAGDVEADPG LADLPQQLLFVHQGETELKELHWHHPQCPGLLVSTALSGFTTIFRT ISV
6086	2419	1357	GAATQHGGAMNLLPCNPHNGLLYAGFNQDHGCFACGMEKGFVRV YNTDPLKEKEKEQEFLEGGVGHVEMLEFRNYLALVGGCKPKYPP NKVMIWDDLKKKTVIEIEFSTEVKAVKLR\DKIVVVLDSMIKV FTFTHNP\HQLHVFE\TCYNPKGLCVLCPNSNNLLAFPGTHTG HVQLVDLASTEKPPVDIPAHEGVLSCLALNLQGTIRIATASEKGT LIRIFDTSGLHILQELRRGSQAANIYICINFNQDASLIVSSDHG TVHIFPAEDPKRNKQSSLASASFLPKYFSSKWSFSKFQVPSGSP CICAEGTEPNAVIAICADGSYYKPLFNPKGECIRDVYAQPLEMT DDKL
6087	476	1877	QNSQRTGLPITTFSESPFLLTGSDLCENMECTCTWRNWRQWIRP LVAVIYLVSIIVAVPLCVWELQKLEVGINTKAWFIAGIFLLLTIP ISLWVILQHLVHYTQPELQKPIIRILWMVPIYSLDSWIALKYP GIAIYVDTCRECYBAYVIYNFMGFLTNYLTNRYPNLVILILEAKD QKHFFPLCCCPPWAMGEVLLFRCKLGLVLYTVVRPFTTIVALI CELGIIYDEGNFSFSNAWYLVIIINMSQLFAMYCLLLFYKVLK ELSPIQPVGKPLCVKLVVVFVFWQAVVIALLVKGVISEKHTW EWQTVEAVATGLQDFIICIEMLAAIA\HRYTFSYKPYVQEA BE GSCFDSFLAMWDVSDIRDDISEQVRHVGRTRVGHPRKLPEDQ DQNEHTSILSSSSQDAISIASSMPPSPMGHYQGFQHTVTPQTTF TTAKISDEILSDTIGEKKEPSDKSVDS
6088	1684	689	GASGLVRLLOQGHRCCLAPVAPKLVPPVRGVKKGFRAPFRQKE LERQRLLRCPPPVRRSEKPNWDYHAEIQAFCHRLQENFSLDLL KTAIVNSCYIKSEAKRQOLGIEKEAVLLNLKSNQRLSEQTSF SQTCLTQFLEDEYDMPTEGINKLVDFLTGERVVCHVARNLAVE QLTLSBEFPVPAVLQQTFFAVIGALLQSSGPRTALFIRDFLI TQMTGKELFEMNKIINPMGLLVEELKKNVSAFESRLTRQSGVA

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6089	3	3054	<p>PTALPLYFVGLYCDKLLIABGPGETVLVAEEAARVALRRLYGF TENRRPWNYSKPKETLRAEKSITAS</p> <p>TRLGIPGSTISSRPRCLALAEAGHFLGHSWTGSRAGAHTGAPAW PSRRLRDLDPAGCMWRLRRAVACEVCQSLVKHSSGIGKSLPLQK LHLVSRSIYHSHPTLQLRPPQLRTSQFQSSSLTNLPLRLKLF PIKYGYQPRRNFWPARLATRLKLRLYLILGSVGGGYTAKCTFD QWKDMPDLSEYKNIVPDIVWEIDFYIDFEKIRKALPSSSEDLVK LAPDPDKIVESLSLLKDDFTSGSPRETAFRATDRGSESDKHFRK VSDKEKIDQLQEBLLHTQLKYQRIERLEKENKELRLVLQKDD KGIPFIESLRKSLIDMYSEVLDVLSYDASINTQDHLPRVVVVG DQSAGKTSVLEMLAQARIIPRGSGEMMTRSPVKVTLSEGPHEVA LFDSSREFDLTKEEDLAALRHEIELRMKNVKEGCTVSPETIS LNVKGPGLQRMVLDLPGVINTVTSGMAPDTKRTIPSIKAYMQ DPNAIILCIQDGSVDAERSIVTDLVSQMDPHGRRITIFVLTVDL AEKNVASPSRIQIIEGKLFPKALGYFAVVTGKGNSSSIEAI REYEEFFQNSKILKTSMLKAEQVTTNRNLAVSDCFWKMVRES VEQQADSFKATRFNLETEWKNKYPRLRELDRENEFEKAKNEILD EVISLSQVTPKHWEILQOQLSERVSTHVIENIYLPAAQTMSNG TFNTTVDILKQWTDKQLPNKAVEVANETLQEEPSRFMTPEPKK EHDDIFDKLKEAVKERSIKRHKWDFAEDSLQVQHNALEDRSI SDKQQWDAIYFMEKALQARLKDTEAENMVGPD\WKRWNLWY KNRTQEQCVHNETKNELEKMLKCNHHPAYLASDEITTVRKNE SRGVEVDPSLIKDTWHQVYRRHFLKTALNHCNLCRRGFYYQQRH FVDSLELCNDVFLFWRIQRLAITANTLRQQLTNTVEVRLLEKNV KEVLEDFABDGEKKIKLLTGKRVQLAEDLKKVREIQEKLDAFIE ALHQEK</p>
6090	194	1560	<p>PVFPAPGAVLEQAS/ASPFLATQTVVPLQCKIPELPEVQASIL FKQLQFFCQIALFVHYINIKTVWWYPPSHPPSHSLNHLID FNLLMVTITVLGRRFIGSIVKEASQKQVSLFRSILLFLTRFTV LTATGWSLCSRLIHLFRTYSFLNLL/FPILLSVMDVHVSVEAELR PARKTSLFNMHMASMGPREAVSGLAKSRDYLLTLR\RRGSSTQDS CMARTPCP/PHACCLSPSLIRSEVFLKMDFNWRMKEVLVSSML SAYYVAFVPVWFVKNTHYYDKRWSCELFLLVSISSVILMQHLL PASYCDLHKAHAHLGCWQKVDPALCSNVLQHPWTEECMWPGV LVKESKNVYKAVGHYNVAIPSDVSHFRPHFFFSKPLRILNLL LEGAVIVYQLYSLSMSSEKWBQITSLALILFSNYAPFKLLRDL VLGKAYSYSASQPDLDHRS</p>
6091	3279	412	<p>SSRTREMEKEILRRQIRLLQGLIDDYKTLHGNAAPGTPAASG WQPPTYHSGRAFSARYPRPSRRGYSSHIGPSWRKKYSLVNRPPG PSDFPADHAVRPLHGARGGQPPVPQQHVLERQVQLSQGQNVVVK VKPPSKSGSASASGAQRGSLBEFEDTPWSDQRPREGEGEPFRGQ LQPSRPTRARGTCSVEDPLLVCQKEPKGPRMVKS VGSVGDSPRE PRRTVSESVIAVKASFPSSALPPRTGVALGRKLGSHSVASCAPO LLGDRRVDAHTDQVPVSGSVGGPARPASGPRQAREASLVVTCR TNKFRKNYKWAASSKSPRVARRALS PRVAENVCKASAGMAN KVEKPQLIADPEPKPKPATSSXKPGSAPS KYKNKASSPSASSSS SFRWQSEAGSKDASQLSPVLSRSPSGD\RPVGHSGLKPLSGE TPLSAYKVKSRTKIIRRGSTSLPGDKSGTSPAATAKSHLSLR RRQALRGKSSPVLKKTTPNKGLVQVTTTRLCLPPSRAHLPTKRA SSLHAVRTAPTSTKVIKTRYRIVKKTTPASPLSAPPFPLSLPSWRA RRLSLRSLVLNRLRPVASGGGAQPGSPWWSKGYRCIGGVLY KVSANKLSKTSQPSDAGSRPLRLTGRLDPAGSCSRSLASRAVQ RSLAIIRQARQRREKRKEYCMYNNRFGRCNRGERCPYIHDPEKV AVCTRFVVGTCCKTDGTCPFSHVSVKEKMPVCSYFLKGICNSN CPYSHVYVSRKAECVSDFLKGICYPLGAKCKKHTLLCPDFARRG ACPRGAQCQLLHRTQKRHSRRATSPAPGPSDATARSVSASHG PRKPSASQRPTRQTPSSAALTAATAVAAPPHCPGGSASPSSSKAS SSSSSSSPASLDHEAPSLQRAALAAACSNRLCKLPSFISLQS SPSPGAQPRVAPRAPLTKDSGKPLHIKPL</p>
6092	143	3190	<p>AKAPPTGESSEPEAKVLHTRLYRAVVEAVIRLDLILCNKTAYQ EVFKPENISLRNKLRELCKLMFLHPVDYGRKABELLWRKYYVE</p>

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			VIQLIKTNKKHHSRSTLECAVYRTHLVAGIGFYQHLLLYIQSHY QLELQCCIDWTHVTDPLIGCKKPVASGKEMDWAQMACHRCIVY LGDLSRYQNELAGVDTELLAERFYQALSVAPOIGMPFNQIGTL AGSKYINVEAMYCYLRCIQSEVSFEGAYGNLKRLYDKAAKMYHQ LKKCETRKLSPGKKRCKDIKRLLVNFMVYLSLLQPKSSSDSEL TSLCQSVLEDFNLCLFPLPSPNLSLASDEDEYESGYAFPLDL LIPQMVIIICLCVHSLERAGSKQYSAALAFTLALFSLVNVHNI RLQAELEBGENPVPAFQSDGTDEPESKEPVEKEEPPDEPPPV PQVGEGRKSRKPSRLSCLRRRRHPPKVGDDSDLSSEGPSSDSDH SARASEGSDSGSDKSLGGGTAFDAETDSEMNSQESRSDLEOME EEEGTRSPTEPPRGRSEAPDSLNGPLGPSEASIASNLQAMSTQ MFQTKRCFRLAPTFSNLLQPTTNPHTSASHRPCVNGDVDPKPS PASEGSESESGESSGSRNERSIQEKLQVLMAGLLPAVKVF LDWLRTNPDLIIVCAQSSQSLWNRSLVLLNLLPAGELQESGLA LCPEVQDLLEGCELPLPSSLLLPBDMALRNLPPLRAAHRNF DTRPLLSLTLSESVVRIICIRSFHF IARLQGSILQFNPEVGIF VSIQSEQESLLQQAQAFRMAQBEARPNRLMRDMAQLRLQLEV SQLEGSQQPKAQSAMSPYLPVDTQALCHHLFVIRQLATSGRFI VIIIPRTVIDGLDLLKKRHPGARDGIRYLEAEFKKGNRYIRCQKE VGKSFERHKLKRDADAWTLKYILDCKQLT\LAQGAGEEDPSG MVTIITGLPLDNPSLLSCPMQAALQAAHASVDIKNVLDIFYKQW KEIG
6093	76	1002	ACGRRAMLALRVART/SRWGAL\RGAVWAPGTRPSKRRACWALL PPVPCCLGCLAERWRLRPAALGLRLPGIGQRNHC SGAGKAAPR\ PAAGAGAAABAPGGQWGPASTPSLYENPWTPNMLSMTRIGLAP VLGYLIIEDFNIALGVFALAGLTDLDDGFIARNWANQRSALGS ALDPLADKILISILYVSLTYADLIPVPLTYMIISRDVMLIAAVF YVRYRTLPTPTLAKYFNPCYATARKPTFISKVNTAVQLILVA ASLAAPVPVNYADSIYLQILWCPTAFTTAASAYSYYHYGRKTVQV IKD
6094	23	1010	PFLRCLRGDQKARMSERKVLNKYYPPDFDPSKIPKLLPKDRQY VVRLMAPFNMRCCTCGEYIYKGGKFNARKETVQNEVYLGPIFR FYIKCTRCLABITPKTDPTDYMHEGATRNFOAEKLEEEEEK RVQKEREDEELNNPMKULENRTKDSKLEMEVLENLQELKDLNQR QAHVDFEAMLRQHRLSBBERRRQQOEBEQETAALLFEARKRRL LESDSEDEAAPSPLQPALRPNPTAILDEAPKPKRKVEVWEQSV GSLGSRPPLSRLVVVKKADPDCSNGQPQA/APHERSPAQEG QQPYTPDAWRVLPETGCIPOQ
6095	1	1599	TRGRAAERSRGRGHGFLCGGFA\SVVDYFPSEDFYRCGYCKNES GSRSGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPMNQTCPPQ YTIRCRPLQFPQPSKSHKKVLKKMLKFLAKGEVPGKSCE\DEPMD STMDAVAGDFALINKLDIQCDLKTLSDDIKESLESEGKNSKKE BPQELLQSQDFVGEKLGSGEP SHS

TRADOC:1416257.1(%CSH011.DOC)

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			VKVHTVPKPGKADLSKPPCRKAKEIRKERRKRLKLMQONPAGEL EGFOAQGHPPSLFPPKAKSNQPKSLEDLIFESLPENASHKLEVR VVRSSPPSSQFKATLLESQVYKRYQMVIHKNPPDPTTESQFTR PLCSSPLEAETPPNGPDCGYGSPHQYWLQDKIIAVGVIDILFN CVSSVYLYYDDPSYSLSLGVYSALREIAFTRQLHEKTSQLSYYY MGFYIHSCPKMKYKQYRPSDLLCPBTYVWVPIEQCLPSLENSK YCRFNQDPEAVDEDRSTEDRLQVFKRAIMPYGVYKKQKQKPS EEAAVLQYASLVGQKCSERMLLERN
6096	2277	575	QRVRAALLSSAMEDSEALGFEHMGDLPRLLQAVTDLGSWRPTLI QKKAIPALALEGKDLLARARTGSGKTAAYALPMLQLLHKKATGP VVEQAVRGLVLVPTKELARQAQSMIQLATYCARDVRVANVSAA EDSVSQRAVLMEKPDVVGTPSRILSHLQDQSLKLRDSLELIVV DEADLLFSFGFEELKSLCHLPRIYQAFMSATFNEVDQALKE LILHNPTVLKLQESQLPGPDQLQFPVVCETEEDKFLLLYALLK LSLIRGKSLLFVNTLERSYRLRLFLQFSIPTCVINGELPLRSR CHIIISQPNQGFYDCVIATDAEVLGAPVKGKRRGRGPKGDKASDP EAGVARGIDFHHVSAVLNFDLPPTPEAYIHRAGRTARANNPGIV LTFVLPTQFHLGKIEELSGENRGPILLPYQPRMBEIEGPRYR CRDAMRSVTQAIAREARKETKEELLHSEKLTFFEDNPR\DIQ LLRHDLPLHPAVVKPHLGHVPPDYLVPPALRGLVRPHKK\GRSCL PLVGRPREQSPRTHCAASSTKERNSDQPSPEVVGPLWS
6097	1673	192	APGTMSSGGKKSSFIQITSVTTDYEGPGSPGASDPPTQPPTGPP PRLENGEPPSPDPGGKGTPRNGSPFPGAPSSRFVVKLPHGLGEP YRRGRWTCVDVYERDLEPHSFGGLLEGIRGASGAGGRSLDSRL ELASLGLGAPTTPSGLSQCPSTWLRPEPTSPGQARSFTGGGLQ LVVPSKAKAEKPLSASSPQQRPEPETGESAGTSRAATPLPSL RVEAEAGGSGARTPPLSRKAVDMRLRMLGAPPEMGQVPLDS RPSSEPALYFTHDASLVHKSDFPGAVAAQKFLAHSMLAISGHL DSDDSGSGSLVGI DNKIEQAMDVLKSHLMFAVREEVEVLKEQI RELAERNAALQENGLLRALA\SPQQLGSAGPPRGVPR\LGPPA PNGPFVLSLSLTIVPLGLPLASAAWPLPMEALIVPVFPGVG VQALSNGPWSPGPIPHLLIIPSLDGGGEGFRTGRQQGAPFGEET QPPPSLPPTQQ
6098	168	1074	NYCLRHRSPLEKDSPPGSSSTSLIKKQRETSDTPIMRALKELD EGKIFKNWGTQTEKEDTSNINPRQTETS VNASRSPEKCAQQRQK RLNSASQRRSSSLPPSNRKSSTPTKREIMLTPVTIVAYSPKRSPE NLSPGFSHLLSKNESSPIRFDILLDDLDTPVSTLQRTNPRKQL \QFLPLDDSEK\TYSEKAT\DNIVNHSSCPEVPNGVKVSVR TANENKNSVSYEQCKPVSVTPQGNDFEYTAKIRTLAETERFF\D ELTKBKDQIEAALSMPSPGGRITLQTRLNQEAFFGRSFGKD
6099	168	1074	NYCLRHRSPLEKDSPPGSSSTSLIKKQRETSDTPIMRALKELD EGKIFKNWGTQTEKEDTSNINPRQTETS VNASRSPEKCAQQRQK RLNSASQRRSSSLPPSNRKSSTPTKREIMLTPVTIVAYSPKRSPE NLSPGFSHLLSKNESSPIRFDILLDDLDTPVSTLQRTNPRKQL \QFLPLDDSEK\TYSEKAT\DNIVNHSSCPEVPNGVKVSVR TANENKNSVSYEQCKPVSVTPQGNDFEYTAKIRTLAETERFF\D ELTKBKDQIEAALSMPSPGGRITLQTRLNQEAFFGRSFGKD
6100	2	713	FVEVSGYRSRADPEPRGRDTMTYAYLFKYIITGDTGVGKSCILL QFTDKRFQPVHDLTIGVEFGARMVNIDGKQIKLQIWDTAGQESF RSITRSYRGAAGALLVYDITRRETFFNHLTSWLEDARQHSSSNM VIMLIGNKSDLESRRDVKREGEAFARR\HGLIFMETSARTACN VEEAFINTAKEIYRKIQQGLFDVHNEANGIKIGPQQSISTSVGP SASQNSRDIGSNSSGCC
6101	1	1399	FRGRAWPLREVSHNLGCRVCSWSASWGRLPALSARLSPLLAFR GKMFVPLSCAVQYAWGKMGNSSEVARILLASSDPLAQIAEDKPY ABLWMGTHPRGDAKILDNRISQKTLISQWIAENQDSLGSVKVDTF

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			NGNLPFLFKVLSVETPLSIQAHPNKELAEKHLQAPQHYPDANH KPEMAIALTPFQGLCGFRPVEEIVTFLKKVPEFQFLIGDEAATH LKQTMGSHDSQAVASSLQSCFSLMKSEKKVVVEQLNLLVKRISQ QAAAGNMEDIPGELLQLHQYQPDIGCPAIFYFLNLLTLKPGF AMFLEANVPHAYLKGDCVECMACSDNTVRAGLTPKFDVPTLCE MLSYPSSSKDRFLPSTRSQEDPYLSIYDPPVPDFTIMKA\ EVP G\ SVTEYKDLALDSASILLMVQGTVIASPTPTTPTPTPIPLQGGVL FTGANESVSLKLTBPKDLLIFRACCLL
6102	70	2415	QTPQATLAANGARDSRGGERMLPAGEIGASPAAPCCSESGDEREN LEEKSDINVTVLIGSKQVSEGTONGOLPSYVSAPFIEKEVGNLKL SLKKLDKLIBQRTVSKMQLBQVLTISSEIPKRIRSAKNABES KQFLNQFLBQETHLPASAINSHLLTAQPMDDLGTMSQIEEIER HLAYLKNWISQIEHLSDNIIQQYLMNNVPEAAS TLVSMALDIKL QESSCTHLLGFMRA TVKFWHKILKDKLTSDFEITLAQLHWPPIA PPQSQTIVGLSRPASAPRIYSYLETLFCQLLKLQTSHELLTEPK\ HSQKNLFLPPLSS/WPIQVMLTFLQKRFRYHFRGNRQTNVLS KPEWYLAQVLMWIGNHTEFLDEKIQPILDKVGS LVNARLEFERSG LMMLVLEKLATDIPCLLYDDNLFCHLVDEVLLFERELHSHVGY GTFASCMHILSEETCFQRNLTVERKFPALQKMSMLSSRAAWVSQ YKIDTDVDEMKVEDCAETFMILLVIIDRYKNLPTASRKLQFLE LQKDLVDDFRIRLTQVMKESTRASLGFRYCAILNAVNYISTVLA DWADNVFFLQQAALVFAENNTLSKLQGLQASMESSVFDIM INLLERLKHDMLTRQVDHVFEVKDAAKLYKKERNLSLPSQSEQ AVMSLSSSACPLLLTLRDHLLQLEQQLCFSLKIPWQMLVEKLD VYIYQEIILANHFNEGGAQLQFDMTRNLPPLFSHYCKRPENYF KHIIKACIVLNLNVGSALTAGKDVLPVQLQGSFPAT
6103	207	2523	ESNSTMTTYLEFIQONEERDGVRFSSNNVWPFSSRLAATRMVVPVA ALFTPLKERPDLPPIQYBPVLCSTRTTCRAVLNPLCQVDYRAKLW ACNFCYQRNQPPPSYAGISELNQPAELLPOFSSIEYVVLRGPM PLIFLYVVDTCMEDDLQALKESNMQMSLSLPPPTALVGLITFER MVQVHELCEGISKSYVFRGTDLSAKQLQBMLGLSKVPVTQAT RGPQVQPPPSNRFLQPVQKIDMNLTDLLGRLQRPWPVPQGR PLRSSGVALSIAVGLLECTFPNTGARIMMFIGGPATQGGPMVVG DELKTPIRSWHDIDKDNAYVKKCTKHFEALANRAATTOHVIDI YACALDQTLLEMKCCPNLTGGYVMGDSFNLSFKQTFQRFVET KIMHGQPKMGFGGTLEIKTFR\ EIKISGAIGPCVSLNSKGPVS ENEIGTGGTCQWKICGLSPITTLAIYFEVVNQHNAPIPGG\ RG A\ IQFVTQY\ QHSSGQRRIRVTTIARN\ WADAQTQIQNIAASFD QRAAAILMARLAIYRAETEGPDVLRNLDROLIRLCQKFGYHK DDPSSFRFSETFSLYPQFMHLRRSSFLQVFNNSPDESSYYRHH FMRQDLTQSLIMIQPILYAYSFGGPPPEVLLDSSSILADRILM DTFFQILYHGETIAQWRKSGYQDMPEYBNFRHLLQAPVDDAQE ILHSRFPMPERYIDTEHGGSQARFLLSKVNPSQTHNNMYAWGQES GAPILTDVSLQVPMHLLKLA VSSAA
6104	124	732	KVSEYIILSKDKILPHALAMLVLVSPNSAARGVLRNYWERLLR KLPSRPGFPPPPWGPALAVQ\ AQPCLQSQQMIPVEVKRI\ RSL LDSIFWMAAPKNRRTIEVNRCCRNPQKLIKVKNNIDVCEPCGH LKQKHVLCAYCYEKVCKETAERIRQIGKQEGGPFKAPTITETVVL YTGETPSEQDQKRIIERDRKRPSWFTQN
6105	3	989	PLHGACTSLVLQRFCHRRPFCAPARPEMRRPAAVPLLLLLCF GSGRAKAAATACGRPMLNRMVGGQDTQEGENPWQVSIQRNGSHF CGGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAM YARVRQVESNPLYQGTASSADVALVEAPVPFTNYILFVCLPD PSVIFETGMNCVWTGWGSPSEEDLLPEPRILQKLA VPIIDT\ PR CNLLYSKDTFEGYQPTIKNDMLCAGFEKGKDKACKGDSAGPLV CLVGQSWLQAGVISWEGGARQNRPGVYIRVTAHHNWIHRIIPK

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6106	3	1302	LQVQPSEVGRPEVTPPGPGAP GRPPTAPHTGRPPTANRGDPRLLDKRGCARLLTSIESRGRPAAS AGLRDRRCALRRWPLRRAPLARATRRRAGSPRRCAPRPRACPG WSRARHQPGGLCLLLLLCOFMEDRSAQAGNCNLROAKNGRCQV LYKTELSKEBCCSTGRLLSTSWTEEDVDNNTLPKNMIFNGGAPNC IPCKETCENVDGPGKKCRMNKNKPRCVCAPDCSNITWKG PVC GLDGKTYRNECALRKARCKEPELEVVQYQGRCKKTCRDVFCPS STCV\VDQTNAYCVTCNRICPEPASSEQYLGNQGVVYS\SAC HLRKATCLLGRSIGLAYEGKCIKAKSCEDIQCTGGKKCLWDFKV GRGRCSLDELCPDSKSDPEVCASDNATYASECAMKRAACSSGV LLVKHSGSCNSISEDTEEREDEDDQYSPFISSILEW
6107	623	168	SRCSRPPEPRGRGK/LSPSKHRKWVEVFKACDEHKGYSLSRE DFKTAVMVLPFYXPSKIEVDSVMSSINPNTSGILLEGLNIVRK KKBAQRYRNEVRHIFTAFDTYRGFLTLEDFFKAFQVAPKLP RTVLEVFREV\DRDS\DGHVSE
6108	3	1348	GGSLRFSPRRVPSCSRVPVPPGGGGLPSPMSASRPQSPPTPW CLPRRYMKHKRDGPEKQDEAVDVPVMTCVFVVMCCSMLVLL YFYDYLIVYVIGIFCLASATGLYSCLADCVRRLP\SASAGESA LLAPTIPNNSLPYFHKRPQARMILLALFCVAVSVVWGVFRNEDQ WAWVLQDALGIAPCLYMLKTI RLPTFKACTLLLLVLEFLYDIFV FITPFLTKSGSSIMVEVATGPSDSATREKLPMLKVPRLNSSL ALCDRPFSLGFGDILVPGLLVAYCHRFDIQVQSSRVYFVACTI AYGVGLLVTFVALALMORGQPALLYLVPCITLVTS CAVALWRRRL GVFWTGGGFAKVLPPSPWAPAPADGPQPPKDSATPLSPQPPSE PATSPWPAEQSPKSRRTSEMGAGAPMRBPGSPAESSEGRDQAQPS PVTQPGASA
6109	1	1381	CRSRAGAASGGATLEGTKLRQRVDTNKPLDPLVPSALRAAMLY LEDYLEMIEQLPMDLRDRFTEMRMDLQVQNMADQLEQRVSEFF MNAKKNKPEWRBQMASIKKDYKKALEDADEKVQLANQYIDLVC RHLRLDQELAKFKMELEADNAGITEILERRSLELDTPSQPVNN HHAHSTPVEKRYNPTSHHTTTHIPEKKFKSEALLSTLTSDA SKENTLGCRRNNNSTASSNNAYNVNSSLPLGSYNIGSLSSGTGAG GI\TMAAAQAVQATAQMKGRRTSSLKASYEAFKNNDFQLGKEF SMARETVGYSSSSALMTTLTQNASSSAADSRGKRSKNNKSSS QSSSSSSSSSLSSGSSSTVVQELSQQTTVVPESDSSQVDWT YDENEPYRICNQVSVGEMVGCOTQDCPIEFHYGCVGLTEAPK GKWCPCQCT\AAMKRRGSRHK
6110	77	2464	ACPSAATMSDODHSMDEMTAVVKIEKGVGGNNGGNGGGGAFSQ ARSSSTGSSSSSTGGGQESQPSPLALJAATCSRIESPKNRNSNMS QGSPSQGGTGELDLTATQLSQGANGWQIISSSSGATPTSKEQSG SSTNGSNGSSESSKNRTVSGGQYVVAAPNLQNNQVLTGLEGVMP NIQYQVI PQFQTVDGQQLQPAATGAQVQDQSGGQIQIIPGANQQ IITNRGSGGNI IAAMPNLQQAQVPLQGLANNVLSGQTQYVITNP VALNGNITLLPVNSVSAATLTPSSQAVTISSSGSGESGSGPVTS GTTISSASLVSSQASSSSFTNANSYSTTTTSSNMGINMFTTSG SSGINSQGGTPQRVSGLQSDALNIQQNQTSGGSLQAGQOKBGE Q\NQQTQAAPKSI SRPQLVQGG\QALQ\APQAAPLSGQTFTTQA ISQETLQNLQQAQVNSGPIIIRTPTVGPNGQVSWQTLQNLQ VQNPOAQTITLAPMQGVSLGQTSSTNTLTPIASAASIPAGTVT VNAQLSSMPGLQITINLSALGTSQIQVHP IQGLPLAIANAPGDH GAQLGLHGAGGDGIHDDTAGGEEGENSPDAQPQAGRRTRREACT CPYCKDSEGRSGDPGKKKHICHICQCGKVYKTSHLRAHLRW HTGERPFMCTWSYCGKRFTSRDELQRHKRTHTGKFKFACPECPK RFMRSDHLSKHITHQNKKGCPGVALSVGTLPLDSGAGSESGGT ATPSALITTNMAMBAICPEGIARLANSGLNVKGGQFCSPINT SANGF

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6111	1637	797	RVDPRVRGAMAPWGRRLAGVRGVLLDISGVLYDSGAGGCTAIAG SVEAVARLKRSRLKVRFCNTESQKSRALVGQLQRLGFDISEQE VTAPAPAAQCILKERGLRPYLLIHDGV\ASEFDQIDTS/STPNC VVIADAGESFSYQNMNAPQVLMLEKPVLSISLGKGRYYKETSG LMLDVGPYMKALEYACGIIKAEVGGKPSPEFFKSALQAIGVEAHQ AVMIGDDIVDVGGAQRCCMRALQVRTGKFRPSDRHHPEVKADG YVDNLAEAVDLLLQHADK
6112	77	196	MSHKSFKSRFLAKKQKPNRPILQWILKTGNKIRHNWK
6113	1779	567	WEGRSNAACGVNLQGAWERSGVRASESPGKRADVSWWSRQL RTMVDHLANTEINSQRIAAVESCFGASGQPLALPGRVLLGEGVL TKCRKKAKDRIFFLNDILVGSIVLNKKYRSQHIIPLEEV LELLPETLQAKNRWMIKTAKKSFVVSAAATERQEWISHIIECV RRLQRLATGREP\STEHAAPWIPDKATDICMCTQTRFSALTRRH HCRKCRVVVCAECSSQRFLPRLSPKPVVCSLCYRELAAQQRK EEABEQGAGVPAASHLARPICGRFVEMTMTPTTRRAGTATG PAAWSSTPRGWPLPSTADPRPAEHLSPQLHCPGPOEGSSRSC PGLRDPPIPNWQVRNGVALSGLPVPPCWTLCPPYGTAGNAFFPR KQONTHRSW
6114	818	246	PTSRPRKPSGSDAMSWSACVSAAPSSSWPASSWPCGPRRCCTR RRRCSPRCGLAAGSMCSCSPSWRCTPVVPCWPSPPP\PAEQVQC GHLPPHADRRRLPVAAPARGPGGHPAGPAGPRPARTPPASP HGPGRPTVPAPPCLLAATEPTPSRFHQRTREDRLGRGSQVT GRPQWFLRGLVLFSL
6115	324	71	DVCGRCVCAHPHYLTHMHICAHAC\ITHAQLC/ITASHALAH SHLYTCMVMLTASHTPSHTHPHTAVHKEHRADVLRGTLTPLR
6116	595	1430	TGVMPFGRWHA/\ISSSGPVFEGARA/LQTVKKEEDESYPVQ AARPQTLNRPQQLFRQLFRQLRYHSSGPLETSLRLRLCRWN LRPDVLSKAQILELLVLEQFLSILPGELRVVQLHNPESGEE\L WPCWRSRGTLMGHPGGTRALP\EPICALDGYRS\LRSAQIWSL ASPLRSSALGDHLEPPYEIARDFLAGQSDTPAAQMPALFPRE GCPGDQVTPTRSLTAQLQETMTFKDVEVTFSDQDEWGWLDQAQRN LYRDVMLENYRNMAISLGR
6117	1433	222	VGVPSAPPSCSWKVGPGGWTGILKEGQCGRRTPLLLIATRTR GLLSLFPFPAAMHAPFPLPVVVAAVLWGAAPTRGLIRATSDHNA SMDPADLPALPGATLSQEGLOGLVEAHPDNACSPIAP?PPAPV NGSVFIALLRFFDCNFDLKVNLNAQKAGYGAUVHNVNSNELLNM VWNSBIQQQIWIPIPSVFIGERSSEYLRLFPYKGAARVLVPDN TFPLGYLLIPFTGIVGLLVAMGAVMIARCIQHRKRLQRNRLTK \EQLKQI\PTHYDQKGDQYDVCAICLDEYEDGDKLRVLPCHAY HSRCVDPWLTQTRKTCPICKQPVHRGPGDEDEEETQGGEEGDR GEPRDHPASERTPLLSSPTLPTSFGSLAPAPLVFPGPSTDPLP SPPSSPVILV
6118	1044	247	STISCRACCTSGATPGAQSHRSARGHAAGGKETAALGMRGKVKK KEKEKETQKEXIGKGRBEKVRKEVEQKIQKQKQKQERRRCK EKEKRTKQKGTNKEKEQFKQKEKGENKDSLTTRTPLEPLEK NKQILVLGLDGAGKTSVLHSLASNRVQHSVAPTQGFHVCINTE DSQMEFLBIGGSKPFRSYWEMYSN/ADSLARSFVGPFKQDSQP ITWKAKKYLHQLIAANPVLPLVVFANKQDLRAAYHITDIEALAI II
6119	1217	462	DPRFVTENTTKAPAQERTTQPRSSREGTLRSTMEYLSALNPSDL LRSVSNISSEFGRVWTSAPPQRPFRVCDHKRTIRKGLTAATR QELLAKALSTLLNGVLTVLVBEDGTAVDSBDFQLEDDTCLM VLQSGQSWSPTRSGVLSYGLGRERP KHSKDIAFTFDVYKQNP DLFGSLNVKATFYGLYSMSCDFQGL\GPKKVLRLRLWTSLLQ GLGHMLLIGISLRLHAVEGAEQWQKGRLLHSY

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6120	785	179	LERAGGGGLSSRALVSGACLSLVARANGKGLPERGRKEFVBAVR VRYVAFRYRTPRAVCLRLWSCRRREVIMSGRGKQGGKVRKAKSR SSRAGLQFPVGRVHRLLRKGNVYAEVAGAPVYLAADVLEYLTAE ILELACNAARDNKKTRIIPRHLQLAIRNDEELNKLKGKVTIAQG G\VLPNIAQVLLPKKTESQRDEGANDP
6121	1612	107	FVRAQARGSRQPVRRPRLGAGSRLRCRSCGRMEPLKVEKFATAN RGNGLRAVTPLRPGELLFRSDPLAYTVCKGSRGVVCDRCILGKE KLMRCSQCRVAKYCSAKCQKAWPDHRECKCLKSCKPRYPDDS VRLLRGVVFKLMDGAPSESEKLYSPYDLESNINKLTEDKKBGLR QLVMTFQHFMRERIQDASQLPPAFDLFEAFKVICNSPTICNAE MQEVGVGLYPSISLLNHSCDFNCISIVFNPHILLRAVRDIEVGE ELTICYLDMLMTSEERRKQLRDQYCFECD\CFRCQTQDKDADML TGDEQVWKEVQBSLKKIEELKAHWKWBQVLAMCOAISSNSERL PDINITYQLKVLDCAMDACINLGLLEALFYGTRIMEPYRIFFPG SHPVRGVQVMKVGKQLHQGMFPQAMKNLRLAFOIMRVTHGRKH SLIEDLILLE/AMRRQHQSILRERSQREIRRVSLNALLRSHT LCFVSCVNLISYWKFCVFPV
6122	2	2324	RFRKMADGGAASQDESSAAAAAADSRMNPSETSKPSMESGDG NTGTQTNGLDFOKQPVVGGAIATAQAQAFGLHLHQVQLAGTSL QAAQSLNVQSKSNERSGDSQSPSQSPSQSPVQAAIPOTOLMIA GGQITGLTLTPAQOQLLQQAQAQQLAAAVQQHSASQHSAA GATISASAATPMTQIPLSQPIQIAQDLQQLQQLQONLNLQOFV LVHPTNLQPA\OFIISQTPQGGQLLQA\QNLTLQLPRQSQAN LLQSQPRI\TLTSQPATPTCTLAATPIQILPQSQSTPKRIDTFS LEEP\SDLEELQFAKTFKORRIKLGFT\QGDAGLAMVKLYGND PSPTTIFRFEALNLSFKNMCKLKLPLEKWLDAENLSSDSSLSS PSALNSPGIEGLSRRRKRTSIEA\NIRVALEKSFLEN\OKPTS EITIMADQLNMEKGVIRVWFENRROKEKRINPPSSGG\TSSSP IKAIPPSPSTSLVATTPSLVTSSAATTLTVSPVPLPLTSAAVTNLS VTGTSDDTSSNNTATVISTAPPASSAVTSPSLSPSPSASASTSEA SSASETSTTOTSTPLSSPLGTQVMVITASGLQTA/AQLLPFKG AAQLPANASLAAMAAAAGLNPSLMAPOFAGGALLSLNPGTLS GALSALMSNSTLATIQAASGGLPITSLDATGNLVFANAGGA PNIVTAPLFLNPQNLISLTSNPVSLVSAASAGNSAPVASLHA TSTSAESIQNSLFTVASAGAASTTTTASKAQ
6123	3	2944	HLLHRWFGTDMQMINFTTGEFQLTEACPYLGTHSESRFGILHL HLQPLEMKRVGVVFTPADYGVKVTSLILIRNNLTVIDMIGVEGFG ARELLKVGGRLPAGGSLRFKVPSTLMDCCRQLKDSKQILSTT KNPKVENIGPLPITVSSLKINGYNCOGYGFEVLDCHQFSLDPNT SRDISIVFTPDFTSSNVIRDLSLVTAADLEFRFTLNVTLPHELL PLCADVVPGPSWEESEFWRLTVFFVSLSLGLVILIAFQQAQYIIM EFMKTRQRQNASSSSQNNGPMOVISPHYSKSNCKNFLTDTYGPS DKGRGKNCLPVNTPQSRIQNAAKRSPATYGHSSQKKHKCSVYYSK HKTSTAAASSTSTTEKQTSPIGSSSLPAKEDICTDAMRENWI SLRYASGINVNLQKNLTLPKNLNLKEENTLKNTIVFSPNSSECS MKEGIQTCMFPKETDIKTSENTAEFRKRLCPLKTSKKLPENHL PRNSPQYHQPDLPBISRNKNGNMQVPVKNEDHCENLKKVDTK PSSEKKIHKTSREDMFSEKQDIPFVBQEDPYRKKKLQEKREBGL QNLNWSKSRCTCRNKKRGVAPVSRPPEQSDCLKLVCSDFERSELS SDINVRSWCIQESTREVCKADAETASSLPAAQREAGYYQKPEK KCVDFKCSDDSSDCGSSSGSVRASRGWSWSSTSSSDGDKKPM VDAQHFLPAGDSVSQNDFFPSRAPISLNLSHNICNPMTGNSLPQY AEPSCPSLPAGPTGVREEDKGLYSPGDLWPTTPVCVTSSLNCTLE NGVPCVQIESAPVHNSFIDWSATCEGQFSSAYCPLBLNDYNAPP RENMNYANGFFCPADVQTFDIDHNSQSTWNTPP\NMPAS\WGNA QFPSSSRPYLKSTPKACLFMSGLFGPI\WAP\QSDVYENCPCIN

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			PTTEHSD/THMENQA\VVCKEYYPGF\NPFRAVMNLDIWTIT\ANRANFPLSRDSSYCGNV
6124	1573	236	SDEALRLAGERGMGRVQLFEISLSHGRVVYSPCEPLAGTVRVRLGAPLPFRATRVTCIGSCGVSNKANDTAWVVEBGYPNSSLADKGSLLPAGEHSFPFQFLLPATAPTSFEGPFGKIVHQVRAAHTPRFSKDHKCSLVFYILSPINLNSIPDIEQPNVASATKKFSYKLVKYGSVVLTASTDLRGYVVGQALQLHADVENQSGKDTSPVVASILLQKVSYKAKRWIHDVRTIAEVEGAGVKAWRRQAQWHEQILVPALPOSALPGCSLIHIDYILQVSLKAPFATVTLVPVFIQNIAY/NPCPSEPPARPGAASWGPTPGG\PSAPPOEEAEAAAGGPHFLDPVFLSTKSHSQRPPLATLSSVPGAPEPCPDGSPASHPLHPPLCISTGATVPYFAEGSGGPVPTTSTLLPPEYSSWGYPEAPPSEYQSGCGVEPSLTPE
6125	1	904	KTCPKLTCAFTVSVPSDCRCVCRGDGELSNEHSDGDI FRQPANREARHSYHRSHYDPPSRQAGLSRFPGARSHRGALMDSQQASGTIVQIVINNKHKHKQVCVSNCKTYSHGESWHPNLRAPGIVECVLCTCNVTKQECKIKHCNRYPCPKYQKIDGKCCVCPG/KKAKBELPGQSFQDKGYFCGBETMPVYESVFMEDCETTRKIALETERPPQVEVHVWVTIRKGILOHPIHKKIKRMFEELPHFKLVTRTTLISQWKIFTEGEAQISQMCSSRVCRTELEDLVKVLRLERSEKHC
6126	1224	389	RLLSRAPCFPSRRRRFQMNPEWGOAFVHVAVAGGLCAVAFPGIFDSVSVQVGYEYHARAPVAGLPAPFLAMPFNSLVNMAITLGLSWLHRGGAMGLGPRYLKDVFAAMALLYGPVQWLRWQWRAAVLDQWLTLPFIFAMPVAVCLYLDGRWRP\WLFSLCEVSLASYGLALLHPQGEVALGAHVVPVAVGQALRT\HRHYG/SATPSATYLALGVLSCLGFVVLKLDHQLARWRLPQCLTGHFWSKVCVQLQFHFAFLFLTHFNTHPRFHPSGGKTR
6127	1335	463	VLPRRCLVFFVNTMDSSEPTLGRDLDAAGFWQVWQRFDADEKGYIEEKELDAFFLHMLMKLGTDOTVMKANLHKVKQFMTTQDASKDGRIRMKELAGMFLSEDENFLLFRRENPLDSSVEFMQIWRKYDADSSGFISAARELNFLRDLFLHHKKAISEAKLEETGTMMKIPDRNKDGRDLNDLARIILALQENFLIQPMQDACSTBKRGDFEKI FAYDVSKTGALBGP\EVDGFVKMMELVQPSISGVLDKFRFILLRHCDVNDKDKIKQKSELALCLGLKINP
6128	2511	843	TCRMSRRQLERWVSSQVQARGRNVRAPRLGKIAMGLEMSKDSFGSLDGRWEDAQKQPSANCGRRKTRVYATSSRRAPPSEGTTRGGAAARPEKTAREGPPAAPGSLRHSGLPGPHACPTALPEPQVTSAMSSQVVGIEPLYIKARPASPDSPKGSSETETEPVALAPG\PAPTRCLPGHKEEDGEGAGPGEQGGKLVLSL PKRLCLVCGDVASGYHYGVASCEACKAFKRTIQGSIBYSCPASNECBITKRRRKACQACRFTKCLRVMLEKGVRLDRVGRGRQYKRRPEVDPLFPFGPPFAGPLAVAGGPRKTAAPVNALVSHLLVVEPEKLYAMPDPAGPDGHLPAVATLCDLFDREIVVTISWAKSIPGFSSLSLSDQMSVLQSVNMEVLVLGVAQRSLLTQDELAPAEYLVLDEEGARPAGLGELG\AALLQLVRRLOALRLERREYVLLKALAIANSDSVHIEDEPLWSCEKILHREALLEYEAGRAGPGGGAERRRAGRLLLTPLLRQTAGKVLAHFYGVKLEGKVPMHKLPLEMLEAMMD
6129	1764	771	ARFARSAHEGKMPKKTGARKFAENRREREKQLRASRSTIDLAKHPCNASMECDKQRRQKNRAFICYFCNSVQLPICAQCGKTKCMMKSSDCVIXHAGVYSTGLAMVGAI CDCEANVCHGRKCLSTHACACPLTDAEC\VECEGVWDHGGRI FSCSPCHNFLCEDDQFEHQASQVLEAETFKCVSCNRLGQHSCLRKACFCDDHTRSKVFKQEKQKPPCPKCGHETQETKDLMSSTRSLKFGRTGGEGDGASGYDAYWKNLSSDKYGDTSYHDEEEDYEAEDEEEDBGRKDSSTESSDLFTNLNLGRTYASGYAHYEEQEN
6130	3	577	GRGGTMREYKVVVLGSG\GVGKSALTV\QVTCITFIRKYDPTIR

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			DFYRKBIIEV\DSPPSVAGISWTQQGTQF\ASMRDLYIKKGQGC ILVYSLVNQQSQ\DIKPMRDQIRVKVSEKVPVI\LVGN\SVD LESEREVSSSGRALAEWGCPPMETSASKSKTMVDELFAIRVRO MNYAAQPDKDDPCCSACNIQ
6131	3	1811	SSPREKTSDDSSHRPSRHGFLFLRLVLGLSPFSYLCVPPSRPVPGS PRSLSAMRLPLAPGRLRRGSPRHLPSCPALLLLVLGGCLGVF GVAAGTRRPNVVLLTDDQDEVLGGMTPKTKKALIGEMGMTFS SAYVPSALCCPSRASILTGYPHHHVNNLTGNCSSKSWQKI QEPNTFPAILRSMCGYQTF\AGKYLNEYGAPDAGGLEHVPLGW SYWYALKKNSKYNYTLINGKARKHGENYSVDYLTDLVANVSL DFLDYKSNFEPFFMMTATP\APHSEWTAAPQYQKAFQNVPAFRN KNFNIHGTNKHILIRQAKTPMTNSSIQFLDNAFRKRWQTLTSLVD DLVEKLVKRLFTGELNNTYIIFYTSDNGYHTGQFSLEPIDKRQLY EFDIKVPLLVRGPGIKPNQTSKMLVANIDLPTLIDAGYDLNK TQMDGMSLLPILRGASNLWRSDDLVEYQGEGRNVTDPCTPSLS PGVSGCFDPCVEDAYNNITYACVRIMSALWNLYQCEFDQEVFV EYVNLTAADPDQITNIAKTIDPELLGKMYRLMMLQSCSGPTCRT PGVFDGYPFRPRLMFSNRGSRVTRRFSKHL
6132	96	1241	AAGLLPGLVPEDEPRTRNLLDFGIQGPFPALSRPLFSCVESGW AWEAMEPEFLYDLLQPKGVPEPAREELSKGGKKKYLPPTSRKD PKFEELQKPA\VLMEWINATLLPEHIVRSLEEDMFDGLILHL FQRLAALKLEAEDIALTATSQKHKLTVVLEAVNRS\CSWRSGRP SGA/WESI FNKDLSTLHLLVALAKRFQPDLSLPTNVQVEVITI ESTKSGLKSEKLVEQLTEYSTDKDEPPKDVDELFLKLAPEKVA VKEAIVNFVNQKLDRIGLSVQNLDTQFADGVILLLLIGQLEGFP LHLKEFYLTNPSPAEMLNVTALAIL/IGRGAQLFC/LALK/ TIVNKDAKSTLRVLYGLFCKHTQKAHRDRTPHGAPN
6133	2	4256	FVHGSMADTDLFMECEBELEFPWQKISDVIEDSVVEDYNSVDKT TTYSVSQQPVSAAPVPIAAHASVAGHLSTSTTVSSSGAQNDSSTK KTLVTLIANNAGNPLVQGGQPLILTONPAPGLGTMVTPVLR PVQVMQANANHTSSPVASQPIFITQGFVVRNVRPVQANMNQVG IVLNVQGGQTVRPITLVPAGTQFVKPTVGVQVQVFSQMTPVVRPG STMPVVRPTTNTFTTIVIPATLTIRSTVPSQSQSTKSTPSTSTP TATQPTSLGQAVQSPGQSNQTNPKLAPSPFSPPAVSIASFVT VKRPGVTGENSNEVAKLVNTLNTIPSLGQSPGVVVSNNSSAH\ GSORTSGPESMSKVTSSIPVFDLQDGGRKICPRCNAQFRVTEAL RGHMCYCCPEMVEYQKKGKSLDSEPSVPSAAKPPSPEKTAPVAS /THPSSTPIPALSPPY/TKVPEPNENVGDAVQTKLIMLVDDFFY GRDGGKVAQLTNFPKVATSPRCPHCTKRLKNNIRFMNHMKHVE LDQNGEVDGHTICQHCYRQFSTPPQLQCHLENVHSPYEESTTKC KICEWAFESBPLFLQHMKTTHKPGEMPYVCQCYRSSLYSEVD VFERMIHEDTRHLLCPYCLKVFKNGAFQOQHYMRHQR\NVYH\ CNKCRVQFLPAKDKIBHKLQHHKTFRKPKQLEGLKPGTKVTIRA SRQQRTPVPVSSNDTPPSALQEAAPLTSSMDPLPVFLYPVQRS IQKRAVRKMSVMGRQTCLECSFEIPDPFNHFTYVHCSLCRYST CCSRAYANHMNNHVRKSPKYLALFKNSVSGIKLACTSCTFVT SVGDAMAKHLVFNESHSSSILPRGLTWIAHSRHGQTRDRVHDR NVKMYPPPSFPTNKATVKSAGATPABPRELLTFLAPALPSPA STATPPPTPTHQALALPPLATEGAECLNVDDQDEGSPVTOBEP LASGGGGSGGVGKKBQLSVKKLRVVLFCNTEQAABHFRNPQ RRIRRWLRFPQASQGENLEGKYLSEAEKLAEWLTOREQQLP VNEETLFQKATKIGRSLEGGFKISYEWAVRMLRHHLTPHARRA VAHTLPKDAENAGLFDIVQRQIHNQDLPLSMIVAIDEISLFL DTEVLSSDDRKENALQTVGTGPWCDDVLAAILADGTVLPTLVFY RGQMDQANMPDSILLEAKESGYSDDEIMELWSTRVWQKHTACQ RSKGMLVMDCHRTLSREVLAMLSASSTLPAVVPAGCSSKIQPL

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			DVCIKRTVKNFILHKKWKEQAREMADTACDSVLLQLVLVLGGEV LGVIGDCPELVQVSFLVASVLPDGNINSPTNRADMQEELIAS LEEQKLKSGEHSSESTPRPRSSPEETIEPESLHQLFEGSESTES FYGFEEADLDLMEI
6134	2	4256	FVHGSMADTDLFMECEEELEPWQKISDVIEDSVVEDYNSVDKT TTVSVSQQPVSAVPVIAAHASVAGHLSTTTVSSSGAQNDSSTK KTLVTLIANNAGNELVQGGQPLILTONPAGLGTMTVTPVLR PVQVMQANANHTSSPVASQPIFITTQGFVVRNVRPVQANMNQVG IVLNVOQGQTVRPITLVPAGTQFVKPTVGVQVFSQMTFVRPG STMPVVRPTTNTFTTVPATLTIRSTVPQSQSQTKSTPSTSTTP TATQPTSLGQLAVQSPGQSNQTNPKLAPSPFSPPAVSIASFTV VKRPGVTGENSNEVAKLVNTLNTIPSLGQSPGPVVVSNSSAH\ GSQRTSGPSSMKVTSSIPVFDLQDGRKICPRCNAQFRVTEAL RGHMCYCCPEMVEYQKKGKSLDSEPSVPSAAKPPSPEKTAPVAS /THPSSTPIPALSPPY/TKVPEPNENVGDAVQTKLIMLVDDFFYY GRDGGKVAQLTNFPKVATSFRCPHCTKRLKNNIRFMNMMKHIVE LDQNGEVDGHTICQHCYRQFSTPFQLQCHLENVHSPYESTTKC KICEWAFESSEPLFLQHKMDTHKPGEMPHYVCQVCQYRSSLYSEVD VHFRMIHEDTRHLLCPYCLKVFKNGNAPQOHYMRHQKR\NVYH\ CNKCRVQFLFAKDKIEHKLQHKHTFRKPKQLEGLKPGTKVTIRA SRGQPRTVFVSSNDTPPSALQEAAPLTSSMDPLPVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFEIPDFPNHFPTYVHCCLCRYST CCSRAYANHMINNHPKSPKYLALFKNSVSGIKLACTSCTFVT SVGDAMAKHLVFNPSHRSSILFRGLTWIAHSRHGQTRDRVHDR NVKNMYPSPSPPTNKAATVKSAGATPAPPEELLTPLAPALPSPA STATPPPTPTHPQALALPLATEGAECLNVDDQDEGSPVTQRP LASGGGSGGVGKKEQLSVKKLRVLFALCCNTEQAAEHFRNPQ RRIRRWLRFPQASQGENLEGKYLSEAEKLAEWVLTQRBQQLP VNEETLPQKATKIGRSLEGGPKISYEWAVRFLRHHLTPHARRA VAHTLPKDVANAGLFIDFVQRIHQDLPLSMIVAIDEISLFL DTEVLSSDDRKENALQTVGTGEFPCDVLAILADGTVLPTLVFY RGQMDQANMPDSILLKESGYSDDEIMELWSTRVWQKHTACQ RSKGMVMDCHRTLSSEVLAMLSASSTLPAVVPAGCSSKIQPL DVCIKRTVKNFILHKKWKEQAREMADTACDSVLLQLVLVLGGEV LGVIGDCPELVQVSFLVASVLPDGNINSPTNRADMQEELIAS LEEQKLKSGEHSSESTPRPRSSPEETIEPESLHQLFEGSESTES FYGFEEADLDLMEI
6135	2	4256	FVHGSMADTDLFMECEEELEPWQKISDVIEDSVVEDYNSVDKT TTVSVSQQPVSAVPVIAAHASVAGHLSTTTVSSSGAQNDSSTK KTLVTLIANNAGNELVQGGQPLILTONPAGLGTMTVTPVLR PVQVMQANANHTSSPVASQPIFITTQGFVVRNVRPVQANMNQVG IVLNVOQGQTVRPITLVPAGTQFVKPTVGVQVFSQMTFVRPG STMPVVRPTTNTFTTVPATLTIRSTVPQSQSQTKSTPSTSTTP TATQPTSLGQLAVQSPGQSNQTNPKLAPSPFSPPAVSIASFTV VKRPGVTGENSNEVAKLVNTLNTIPSLGQSPGPVVVSNSSAH\ GSQRTSGPSSMKVTSSIPVFDLQDGRKICPRCNAQFRVTEAL RGHMCYCCPEMVEYQKKGKSLDSEPSVPSAAKPPSPEKTAPVAS /THPSSTPIPALSPPY/TKVPEPNENVGDAVQTKLIMLVDDFFYY GRDGGKVAQLTNFPKVATSFRCPHCTKRLKNNIRFMNMMKHIVE LDQNGEVDGHTICQHCYRQFSTPFQLQCHLENVHSPYESTTKC KICEWAFESSEPLFLQHKMDTHKPGEMPHYVCQVCQYRSSLYSEVD VHFRMIHEDTRHLLCPYCLKVFKNGNAPQOHYMRHQKR\NVYH\ CNKCRVQFLFAKDKIEHKLQHKHTFRKPKQLEGLKPGTKVTIRA SRGQPRTVFVSSNDTPPSALQEAAPLTSSMDPLPVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFEIPDFPNHFPTYVHCCLCRYST CCSRAYANHMINNHPKSPKYLALFKNSVSGIKLACTSCTFVT

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			SVGDAMAKHLVFNPSHRSSSILPRGLTWIAHSRHGQTRDRVHDR NVKNNMYPPSPFTNKAATVKSAGATPAEPEELLTPIALAPLSPA STATPPPTPTHPQALALPLATEGARCLNVDDQDEGSPVTQRPB LASGGGGSGGVGKKEQLSVKLRVVLFCNCNTEQAAEHFRNPQ RRIRRWLRRFQASQGENLEGKYLSEAEKLAEWLVLTQREQLP VNERTLPQKATKIGRSLEGGFKISYEWAVRPMRLRHHTPHARRA VAHTLPKDAENAGLFIDFVQRQIHNDPLSMIVAIIDEISLFL DTEVLSSDDRKENALQVTGTGEPWCDVVLAILADGTVLPTLVFY RGQMDQPANMPDSILLEAKESGYSDEIMELWSTKRVQKHTACQ RSKGMLVMDCHRTHLSEEVLAHLASSTLPAVVPAGCSSKIQPL DVCIKRTVKNFLHKKWKEQAREMADTACDSVLLQLVLVWLGEV LGVIGDCPELVQSRFLVASVLPDPDGNINSPTRNADMQEELIAS LEEQLKLSGEHSSESSTPRPSSPEETIEPESLHQLPGESESTES FYGFERRADLDLMEI
6136	1704	539	PGVRMALBGMKRRKRKRSVQEOENPDDGVRGSPPEYRLGQVAS SLPRGEHHSRGGTGRLASLFSSLEPQIQPVVVPVKESALASA DLEEEIHQKQGKRRKNSQPGVKVADRKILDDTETTVVSQRKIQ INQEBERLKNERTVFGNLPVTCNKKKLSFFKEYGQIESVRFR SLIPAEGLSKKLAALKRKHDPQKNINAYVVPKERSAATQALK RGAQIADGFRIKVDLASETSSSRDKRSVFGNLPYKVESATEK HFLDCGSIMAVRIVRDKMTGIGKGFYVLPENTDSVHLALKLN SELMGRKLRVMSRVNKEKFKQNSNPRKKNVS KPKQGLNFTSKT AEGHFKSLFICEKAVLLKTKKQKKSGRPKQRKQK
6137	141	2656	RALRRRCRCPGRRGALGSGPGPQRRRGRVPEERPAPEERKHPG MNNMLIVAMCLA\LLGLPGKAQELQGHVS\IILAGEQLGDLAK YLMQG\LFQLYLDEAGRGHSFSPHGAALTAPKQGEELMAKALE LSCPKDMPASHCAEHKQQLQLSQYRQLKTAEDYQALNKDIEAQ LQHAGLREAGGIFYFSVPPFAYEDIARNINSSCRPGGAWLRVV LEKPPCHDHPSAQQLATELCTFPQBEEMRYVDHYLGKQAVAIIL PFRDQNRKALDGLWNRHHVERVEIMKETVDABORTSFYEEYGV IRDLQNLHTEVLTIVAMELPHNVSSAEAVLRHKLQVQALRGL ORGSAAVVGQYQSYSEQVRRELQKPDSPHSLTPTTFAGVLVHIDNL RWEGVPTILMSGKALDERVGYARILFKNQACCQSEKHWAASQ QCLPRQLVFHIGHDLGSPAVLVSRNLFPSLPSWKEMEGPPG LRLFGSPLSDYYAYSPPVREDAHSVLLSHIFHGRKNFFITENL LASWNPWTPLLESIAHKAPRLYPGGAENGRLLDFEPSSGRIFFS QQQPEQLVPGPGPGMPSPDFQVLRKYRESSLVSAWSEELISKL ANDLEATAVRAVRRFGQPHALSGGSSPVALFQQLATAHYGFPW AHTHLWLVDERCVPPLSDPSNFGQIAHLLQHVRIPIYINIH\AM PVHLQQRLCABEDQGAHTYAREISALGANSSFDLVLLGMGADGH TASLEFPQSFTGLDGEQLVLTTSFSPQPHRRMSLSLPIINRAKV AVLVMGRMKREITTLVSRVGHBPCKWPISGVLPHSGQLVWYMDY DAFLG
6138	4587	934	EFSKLTDRWQNAVQGVQRKGDVDGLVRQWQDFTTSVENLFRFL TDTSHLLSAVKQGERFSLYQTRSILHELKNKEIHFQRRRTTCAL TLEAGEKLLITDLETKESVGRRIISQLQDSWKDMEPQLAEMIKQ PQSTVETWDQCEKKIKELKSRLQVLKAQSEDPLELHEDLHNEK ELIKELQSLASWTONLKKELQTMKADLTRHVLVEDVMVLKEQIE HLHRQWEDLCRVAIRKQIEEDRLNTWVVFNEKNKELCAWLQOM RNKVLQTADISIEEMIEKLQKDCMBEINLPSBNKILQKQMGDQL IKASNKSPAAEIDDKLNKINDRWQHLFDVIGSRVKLKETFAFI QQLDKNMSNLRWLARIESELSKPVVYDVCDDQEIQRRLAEQQD LQRDIEQHSAGVESVFNICDVLHDSACANETECDSIQQTTRS LDRRWNI CAMSMERMKIETWRLWQKFLDDYSRFEDWLKSAE RTAACPNSSSEVLYTSAKEBLKRFPAFQRQIHERLTQLELINKQY RRLARENRTDTASRLQMVHEGNQRWDNLQRRVTAVLRLRHFT

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			NQREBEFEGTRESILVWLTEMQLQTNVHFSESDDADKMRQLNG FQGETTLNTNKIDQLIVFGEQLIQKSEF\LDVAVLIEDELEELHR YCOEVFGRVSRFHRRLTSCPTGLEDEKEASENETMEDPREIQT DSWRKRGESEEPSSPQSLCHLVAPGHERSGCETPFVSVD\IPLE WDHTGRRGGPSSSH\EDDEAQQY\SALSGKSIDGHSWHVPDS PSCPBHHYKQMEGDRNVPPVPPASSTPYKPPYKLLLPPTDGG KSGPRVLNGNPQDEGLAGITEQQSGAFDRWEMIQAE\HNK LKIKQNLQQLNSDISAITTWLKKTEAELEMLKMAKPPSDIOEIE LRVKRLQELKAFDTYKALVSVNVSSKEFLQTESPESTELQSR LRQLSILLWEAAQGAVDSNRGGLRQSLMQCQDFHQLSQNLLWLA SAKNRRQKAHVDPKADPRALLECRRELQLEKELVERQPVDM LQETISNLLIKHGECIEAEKVHVI\BKKLQLEREQVSQDLM ALQGTQNPASPLPSFDEVDSGDQPPATSVPAFRAKQFRAVRTTE GEBETESRVPGSTRPQRSPLSRVRAALPLQLLLLLLLLLACLL PSSEEDYSCTQANNF\ARSFYPMRLRYTNGPPPT
6139	52	1131	LGDVVWSRTGCVLETPTSVLRARARGPCPTDSKWLPRLEGE TERRPWRASWKT/LAGWIGGAASVTIUGHPLDTVKTRLQAGVC YGNLTSCIRVVYRRESMFGFKCMSFPLASIAVYNSVVFVFN TORFLSQHRCGEPEASPPRTLSDLLASMVAGVSVGLGCPVDL IKIRLQMOTPPVSGRQPRFEVQSGSCG\BPAYQGFVHCITTTV RNEGLAGLYRGASAMLLRDVPGYCLYFIPYVFLSEWITPEACTG PSPCAVWLAGGMAGAIISWTATPMDVVKSRLOADGVYLNKYKGV LDCISQSYQKEGLKVFFRGITVNAVGRGFMSAAMFLGYELSLQA IRODHAVTSP
6140	694	136	RPELELWRLRSRWRPLGVPRRCHRRNWKEPVRAQPLSVTVWAP RCORP/QPPAPEPSSPNAAPPEAIPTPRAAASAALEPLGPAPV SVAPQAEAEARSTPGPAGSRGPETFRQRPQFRYQDAAGPREA FRQLREL/SPRQWLRPDI\RTKBO\IVEMLVQEQLLAILPEAAR ARRIRRTDVIRITG
6141	2	984	AQVGPRESRCKMPLKLRGKKAKSKETAGLVEGEPTGAGGSSLS ASRAPARRLVFHAQLAHGSAATGRVGEFSSIQELYAQIAGAFETS PSEILYCTLTNPKIDMERLLGGQLGLEDPIFAHVKGIEKEVNVV KSEDSLGLTITONGVGYAFIKRIDGGVIDSVKTCVGDHIESI NGENIVGWRHVDVAKKLKELKKEBLFTMKLIBPKKAFIEILRSK AGKSSGEEKIGCRATLRLRSKGPATVEEMPSETKAK\AIEKIDD VLELYMGIRDIDLATTMFAGKDKVNPDEFAVALDETLDGFAPP DEPFVDVWGVIGDAKRRGL
6142	116	602	EABGEQVCGAKCCGDAPHVENREETARIGPGVMESKEERALNN LIYENVNQENDEKDEKEQVANKGEPLALPLNVSEYCVPRGNRRR FRVRQPIILQYRWDIMHRLGEPQARMREEMERIGEEVRQIMBKL REKQLSHSLRAVSTDPFHHDHDEFC\LMP
6143	2802	270	FRMRIPLHCPWNQMWKIWNLLTSLSCAHLSTQKLLKER/Q \QLPVFKHRDSIVETLKRHRVVVAGET\GSGKSTQVPHFLLED LLNEWASKCNIVCTQPRRI SAVSLANRVCDELGCENGPGGRN SLCGYQIRMESRACESTRLLYCTTGVLRLKLBQDGLLSNV/SM FIVDEV\HER\SVQSDFLLIILKEILQKRSDLHLILMSATVDSE KFSTYFTHCPILRISGRSYPVEVFHLEDIIEETGFVLEKDSEYC QKFLSEEEVTVINVTSKAGGIKKYQRYIPVQTGAHADLNPFFYQ YSSRTQHAILYMNPHKINLDLILELLAYLDKSPQPRNIEGAVLI FLPLAHIQQLYDLSNDRRFYSERYKVIALHSILSTQDQAAAF TLPPPGVRKIVLATNIAETGITIPDVVFVIDTGRTKENKYHES QMSSSLVETFVSKASALQRCGRAGRVRDGFRCFRMYTRERFEGFMD YSVPKILRVPLEELCLHMKCNLGSPEPFLSKALDPFQQLQVISN AMNLLRKIGACBLNEPKLTPLCQHLAALPVNVKIGKMLIFGAIF GCLDPVATLAAMTEKSPFTTPIGRKDEADLAKSALAMADSDHL TIYNAYLCWKKARQEGGYRSEITYCRNFLNRTSLLTLEDVKQB

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			LKILVKAAGFSSSTTSTSWEGNRASQTLSFQRIALLKAVLVAGL YDNVCKI IYTKSVDVTEKLACIVETAQGAQVHPSSVNRDLQTH GNLLYQEKIRYARVYLRETTLITPFPVLLPGGDIEVQHRELLS IDGNLYFQAPVKIAVIFKQLRVLIDSVLRKKLENPKMSLENDKI LQIITELIKTENN
6144	1289	568	SGPGSMGQRVDVKVVMGLKEYVGKTSILVERYVHDFLVGPYQN VSAGSGARHGGRGSGGPVICTYGPDLFPLVA\TIGAAFAKVMVS VGDRTVTLGINDTAGSERYEAMSRIYYRGAKAAIVCYDLTDSSS FERAKFWKELRSLSEEGCQIYLCGTKSDLEEDRRRRRVDFHDV QDYADNIKAQLPETSSKTGQSVDELQKQVADYVSVAAFPQVMTB DKGVLDGQKPNPYFYSCCHH
6145	1109	196	GGMDLSELERDNTGRCLSSPFAVCRKRPCVLGVDEAGRGFVL GPMVYAIICYPLPRLADLEALKVADSKTLLESEERERLFAKMBDT DFGWALDVLSPNLISTSMLGKVKYNLSLSHDTATGLIQYALD QGVNVTQVFVDVTGMPETTYQARLQQSFPGIEVTVKAKADALYPV \VSAASICAKVARDQAVKKWQFVEKLQDLTDYQ\SGYPNDPQD /TKAWLKEHVEPVF\GFP\QFVRF\SWRTAQTI\LEKEAEDVIR KDSASENQEGLRKITSYFLNEGSGARPRSSHRYFLERGLESTTS L
6146	428	781	LKKKGKKEKAEAAQVEALPGPSLDQWHRSAKEEDGPFVLTDEQKS R/YPGHEAHDQGG\WDAROSIIRKVVDPETGRTRLIKGDGEVLE EIVTKERHREINKQATRGDCLAFQMRAGLLP
6147	1	2304	GTRQLPPPPSPGSGPGDSEPGEPGEAPERERRKAHGMKLKLYYGLSE GRAAGRPAGPDPLDPTDLNGAHFDPEVYLDKLRRECPALQMLDS ETDNVRQIRALDSMQTLVYENYNKFI SAITDTRKMRNDFRME DEMDRLATNMAVITDPSARISATLQDRHERITKLAGVHALLRKL QFLFELPSRLTKCVELGAYGQAVRYQGRAQAVLQYQHLPSFRA IQDDCQVITARLAQQLRQRFREGSGAPEQARCVLGLLALGEP AELCEEFLAHARGRLKELRNLEAELGSPSPAPDVLEFTDHG\ S SGFVGGLCQVAAAYQELFAAQGPAGAEKLAAPARQLGSRYPALV ERRLAQEQGGGDNSSLVRLDRFHRRLRAPCALLAAAGLADAAT EIVERVARERLGHHLQGLRAAFLGCLTDVRQALAAPRVAGKEGP GLAELLANVASSILSHIKASLAHVHLP TAKEVSFSNKPYPFRGEF CSQGVREGLIVGFVHSMCQTAQSFCDSPGKGGATPPALLLLLS RLCLDYETATISYILTLTDQFLVQDQFPVTPVSTLCARARETA RRLTHYVKVQGLVISQMLRKSVEITRDNLSTLEPRNVRAVMKRV VEDTTAIDVQVLPRLAGVALTQAGGTVP SRGAGAAEDHWQSLPG GGDMCINASHGASSVARASVREPQGNKSPRMNTKRAGECLCPRS CSFSAQDYDIFAPILPVEKQRLRVTQEVRAGLVLVLKIRPQTNS CILPLPHSTGINS DHVPTK
6148	3056	353	VPAVGCTFADGAMGEARKFHYIYSCOLDINVOLKIGSLGKREQ KSYKAVLEDPMLKFSGLYQETCSLDLYVTCQVFAEGKPLALPVRT SYKAPSTRWNNEWLKLVPKYPDLP RNAQVALTIWDVYGPGRV PVGGTTVSLFGKYGMFRQGMHDLKVPNCRSQMDQKPTKTPGRT SSTLSEDQMSRLAKLTKAHRQGHMVKVDWLDRLTFREIEMINES VKRSSNFMYLMCGFRVCDDKEVGIVYVEKDGDESSPILTSPE LVKVPDPQMSLENLVSKEHNLPRSLRSGPSDHLKPYPSPRDQ LKNIVSYPPSKPPTYREQDLVNEFRYLTNODKALT KILTSVIW DLPQGAQALALIGKWKPMVDVEDSLELLSHYTNETVRRYAVAR LRQADDEDLLMYLLQLVQALKYENFDDIKNGLEPTKKDSQSSVS ENVSNSGINSAREIDSSQIIT/SAPFSPVSSPPP\ASKTKEVPDG ENLEQDLCTFLISRASKNSTLANLYWYVIVECEDQDTQORDPK THEMVLNVMRRFSQALLKGDKSVRVMRSLAAQQTFFVDRLVHLM KAVQRESGNRRKKNERLQALLGDNEKMNLSDVELIPLPLEBPQVK IRGIIIPETATLFRSALMPAQLFFKTEDGGKYPVIFKHGDDLRQD QLILQIISLMDKLLRKENIDLKLTYPYKVLATSTKHGFMQFIQSV

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			PVAEVLDTGEGSIQNFPRKYAPSENGPGLSAEVMQTYVVKSCAGY CVITYILGVGDRHLDNLLLTGTGKLFHIDFGYILGRDPKPLPPP MKLNKENVEGMGGTQSEQYQEFKQCYTAFHLRRYSNLILNLF SLMDVANIPIIDALEPDKTVKKVQDKFRLDLSDEAVHYMQSLID ESHVHALFAAVVEQIHKFAQYWRK
6149	1	1413	RVDPRVRENGTANPIKNGKTS PASKDQRTGKKTSVQGVQVQKGN D ESESDPESDPPSPKSSSEEEQDDEEVQLQGEQDFNDDDTPEPNI L GHRPLIMDSDEDEKEEKHSSDSYBQAKAKYSDMSSVYRDRSGR GPTQDLNTILLTSAQLSSDVAVETPKQEPDVPFVAVRAQQ PQQEKNEKNLPOHRFPAGLBQEEFDVFTKAPFSKKNVQVQVCHA VGPRAHTIPGYPKSVDFVSGSTFPQPLTSTSKSESNEDLFGVLV FDEITGSQQQKVKQKSLQKLSRQRRTKQDMKSNKGRHHGTPT STKTKTLKPTYRTPERARRHKKVGRRDSQSNEFLTISDSKENIS VALTDGKDRGNVLQPPESLLDPFGAKPFHSPD\LSWHPP\HQGL S\DIRADHNT\VLGR\PRONSLHGSFHSADVLKMDDFGAVP/F LTELVVQSITPHQSQSQPV\ELDPFGAAPPFSKQ
6150	372	37	MSNIKKYITIDYDKASIEIEIDHVMTERKLIHQINNFWSDSEYR LNKHGSVLNAVLIMLAQHALLIAISSDLNAYGVVCEPDWNDGNG QEGWPPMDGSEGIRITDIDTSGIF
6151	1555	521	DSMQQSVSGTAASTLLHSFKATIIYQGTGHVQOQFYGVTSFYSQT TPIVQSYAQPSLQYIQGQIIFTAHPQGVVQFAAAVTTIVAPG QPQPLQPEMNVVNNLLDLPPEPSPKPKTIVLPPNWKATARDPEG KIYYHVITRQTQNDPPTWESFGDDASLEHEAEMDLGTPTDYEN PMK\ASKKPKTARADTSSSELAKSKSEVFRKEMSQFIVQCLNPFYR KPDCKVG\RITTTEDFKHLARKLTHGVNMKELKYCKNPE\DLSC NENVKHKTKEYIKKYMQKFGAVYKPKEDTEFRTVTGPGWEDGWS GKTDSSRERKSCGPFCTPVSTVLLMIHHGGRFPNADVN
6152	1366	648	NRTWSTPSTWGMVALPPLCSTGFWPTVTRQITARTTCGAVPAKCP PWC/DVHEPRCQPPDCHGHGTCVDGHCQCTGHFWRPGPCDELDC GPSNCSQHGLCTRTGCRCDAGWTGNSNCECPLGWHGPGCQRP C KCRHHCPCDPKTCNCSVSRVKQCLQPPREATLRAGELSFRTTAW LALTLALAPLLLISTAANLSLLLSRAERNRRLHGDYAYHPLQEM NGEPLAAEKEQPGGAHNPPKD
6153	2	3368	GRVGARSPGRAYALLLLLCFNVGSGHLQVLSTRNENKLLPKH PHLVQRRAWITAPVALLEGEDLSKKNPIAKTHSDLAEBRGLKI TYKYTGKGIETPPFGIFVFNKDTGELNVTSILDRKETPPFLLTG YALDARGNNVEKPLELRIVLDINDNEPVFTQDVVFGSVRELSA AHTLVKINATDADEPNTLNSKISYRIVSLEPAYPPVFLNKTDT GRIYTTSVTLDRREHSSYTLTVEARDGNGCEVTDKPVKQAVQIR ILDVNDNIPVVENKVLGEMVEENQVNVETRIKVPDADEIGSDN WLANFTFASGNEGGYFHIETDAQTNBGIIVTLIKEVDYBEMKNLD FSVIVANKAAPHSIRSKYKPTPIPIKVKVKNVKEGTHPKSSVI SIYVSESMRDRSSKQIIIGNFQAFDEDTGLPAHARYVKLEDRDNW ISVDSVTSBIKLAKLPDFESRYVQNGTYYVKIVASEDYPRKTI TGTVLINVEDINDNCPTLIEPVQTI CHDAEYVNVTAEDLDGHPN SGFFSFVIDKPPGMAEKWKIARQESTSVLLQOSEKKGSRSEIQ FLISDNQGFSCPKQVLTTLTVCEVLHGS\GCREAQHDSYVGLGP AALALMILAFLLLLLVPLLLLMCHCGKAGKFTPIPGTIEMLHP WNNEGAPPEDKVVPSPLPVDQGGSLVGRNGVGGMAKEATMKGSS SASIVKGQHEMSEMDGRWEEHRSLLSGRATQFTGATGAI\MTTE TTITARATGASRDVAGAQAVALNEEFKNYFTDKAASYTERD ENHTAKOCLLVYSQERTESLNASIGCCSFIEGELDDRFLDDLGL KFKTLARVCLGQKIDINKIEQRQKPATETSMNTASHSLCEQTM VNSENTYSSGSSFPVPKSLQEAANEKVQEIIVTBSVSSRQAK VATPLPDPMASRNVIAETSTSYVTGSTMPTTIVILGPSQPSLIV TERVYAPASTLVDQPYANEGTVVVTERTVIQPHGGGSNPLEGTQH

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			LQDVPYVMVRERESFLAPSSGVQPTLAMPNTAVGQNVTVTERVL APASTLQSSYQIPTENSMTARNTTVSGAGVPGPLDPFGLSESGH SNSITITSSSTRVTKHSTVQHSYS
6154	3660	2146	KKTKMKNTYQKTVNFGANPKPTISDKSHLLQMVSKLDLTDANK SDTAHIKSTBITSTILNGLQASSESAEDSEBQDERGAQMDNNNGK EESKIDHLTNNRNDLISKEBONSSSLLEENKVHADLVISKPVSK SPERLRKDIEVLSEDTDYEBDEVTKKRKDVKKDTTDKSSKPKQIK RGKRRYCNTECLCTGSPGKKEKAKNKESLCMENSSNSSSDSD EBETKAKMTPTKKYNGLEEKRSKSLRTTGFGYSGFSEVABKRIKL NNSDERLQNSRAKDRKDVWSSIQQGWPKKTLKELFSDSDTEAAA SPHPAPEEGVAESLQTVAERSCSPSVELEKPPFVNVDSEKPI EKKTVEVNDRKABPPSSGNSPSA* IPLPYLHLNRLHQS*QKGS RQSSVTVSEPLAPNQBEVRSIKSETDSTIEVDVAGBLQDLQS ERE*LASRP*QCELEQ**SARTRTS*KSLYRSEKSERCSGRRK FIKAKKKP*SNSSGKQKQKQK
6155	869	121	HLLPELRGKSWITMKYVFFLGLVLAGTFFFDSSVQKBDPAPYLV YLKSHFNPCVGLIKPSWVLAPAHCYLPNLKVMLENFKSRVRDG TEQITNPIQIVRYMNYSHSAPQDDMLIKLAKPAMLNPKVQALN P\PTTNVRRCTVCLLSGLDWSQENSGRHPDLRQNLAPVMSDR CQKTEQKSHRNSLCVKFVKVFSRIFGEVAVATVICKDKLQGGIE VGHFMGGDVGITYNVYKYVSWIENTAKDK
6156	5725	3984	GTSTVTMATKKHFSITLNLGMLLKKDNQDTRKLLMTWALEVAV VMKKSETYAPLFCPLSPFHKFCGLADTLVRDVNICLQACSSLIH ALSSSLPDDLLQRCVDVCRVQLVHRGTICIRQAFGLKLSIPLGV FLSNNNHTETQETISLALRSHMSKAPNTFHPQDFSD/VISFTLY GNSHRTGKDKWLERLFYSCQRLDKRDQSTIPRNLKTDVWLQW AIWEAAQFTVLSKLRTPLGRAQDTFTQIEGIIRSLAGHTLNPDQ DVSQWTTADNDEGHGNNQLRLVLLQYLENLEKLMYNAYEGCAN ALTSPPKVIRTFLYTNRQTQDNLTRIRLSIMRVGLLAGQPAVT VRHGFDLLTEMKTTLSQGNLEVSIMMVVEALCELHCPEAIG IAVWSSSIVGKHLWINSVAQQAEGRFKASVEYQEHLCAMTGV DCCISSFDKSVLTLASAGCKSASLKHCLNGESRKSIVLSKPTDS PEVINYLGNKACECYISTADNAVQEWQNAIHDLCSTSTSLN LKADPNYIKSLSSPESGKFVECTEQLELLPGENINLLAGGSKBK IDMKLLRNM
6157	946	329	MANRGPSYGLSREVQEKIEBQYDADLENKLVDMWILLQCAEDIEH PPPGRAHFQKWLMDGTVLCKLINSLYPPGQEP I PKISESMAPK QMEQISOFLKAAETYGVRTTDIFQITVDLWEGKDMAAVQRTLMAL GSVAVTKDDGCGYRGEPSWFRKQONRRGFSEBQLRQGNVIGL QMGSNKGASQAGMTGYGMPRQIM*DAASCP
6158	441	1482	LGSLIVLSLHCKVIFSSQSLEKRAMKEKAVDLVPIAQNPGLAQN PILLEGKDHNTGTGVDPIIDHVQDRKTD/SRSKSPHKRSKSRER RKSRSRSHSRDKRKOTREKKIKERKERVKEKREKEREKEREKE KERGKNKDRDKREKDRKDKEREREKEREKEREKEREKEREK QDKEREKDRSKEIDEKRRKKDKSRTPPRSYNASRRSSSSRE RRRRSRSSSRSPRTSKTIKRKSSRSPPSRSNKKDKKREKERD HISERRERERSTSMRKSSNDRDGKEKLEKNSTSLKEKEHNKEPD SSVSKEVDDKQAPRTEBNKIQHNGNCQLNEENLSTKTEAV
6159	53	84	AVIAPLHISLGDRAFPYLKNTKSSSTTCSSRRNQSFPPVMSLTH RLHLCKYNGCAVSNVCFWEGRPLPLMIVVPYTLPVSLPVGSCV IITGTPILTFVKDPQLFVNFTTGMDESDIAFOFRLHFGHPAIM NSCVFGINRYEEKCYLFFEDGKPFELCIYVRHKEYKVMVNGQR IYNFAHRFPASPVKMLQVFRDISLIRVLISD*GRCVRIITAVQEF DVSVSCDCTTAYQPG
6160	1626	1790	AGAKFPF*F*KVADAQPTSEKEIYNQVNVVLKDAEGILEDLQS YRGAGHEIREAIQHPADEKLQEKAWGAVVPLVGKLLKFFEPSQR

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			LEAALRGLIGALTSTPYSPTOHLEREOALAKQFAETILHFTLRFD ELKMTNPAIQNDFSYYRRTLSRMRINNVPAGEGNEVNNELANRM SLFYAATFPMKLTLSDATTKFVSENKNLPIENTTDCSTMASVC RVMLETPEYRSRFTNEETVSFCLRVVMVGVIILYDEVHPVGAFAK TSKIDMKGCIVLKDQPPNSVEGLLNALRYTTKHLNDETTSKQI KSMLO*QLLT/LVNGK
6161	455	1569	PVSGSESLRRRAWASILRLMLGPRVAVSILCRDGYSH*LLEKH* KSHVLEPLSSSLALEQCLALSLDWSTGKTGRAGDQPLKTISSDS TGQLELLMVNETRPRQLQVAVSQAHQFEAWLAAPNYWHPRIVYS GGDDGLLRGWDTRVPGKPLFTSKRHTMGVCSIQSSPHREHILAT GSYDEHILLWDTRNMKQPLADTPVQGGVWRKKNHFFHHLLLLAA CNHSGFKILNCQKAMEERQEATVLTSHTLPSLSVYGADWSWLLF RSLQRAPSWSPFNSLGTADLKGAELPTPCHECRDNDGEGH ARPQSGMKPLTEGMRKNGTWLQATAATTRDCGVNPEBADSASFSL LATCSFYDHALLHWEWGN
6162	1	586	RTIHATGRAGASPMHRLIVWRLAEANKQHVRCQKCLEFGHWTYE CTGKRKYIHRPSRTAEKALKKEKNRLLQSQIGETNVERKAK KKRSKSVTSSSSSSSDSSASDSSSESEETSTSSSSSDSDTDESS SSSSSSASSTTSSSSSDSDSSSSSSSQ*HQHR*QL*R*TKER EKEIELLSYNTDGLKTLIM
6163	1081	785	RIRSTTEGCAVRLHPTQNTGKARIMILLSVSLGRHWFTYKFFL TPVVVFVFFPPFFHRKE*VMQKNPMKSGREDEWMEKLNHLHVQRAD MNRLLIMNYLVTEGFKEAAEKFRMESGIEPSVDLETDERIKIRE MILKGQIQEALIALINSLHPELDTNRYLYFHLQOQHILIELLROR ETRAALEFAQTQLAQGEESRECLTEMERLALLAFDSPESSPF GDLHTMQRKVWSEVNQAVLDYENRESTPKLAKLLKLLLWQON ELDQKKVKYPMKTDLSKGVIEEPK
6164	90	406	PCQSPGRSRMRQDKLTGSLRRGRCCLKRQGGGVGTILSNVLKKE SCISRTAPRLCTLEPGVDTKLKFTLEPSLGQNGFQQWYDALK VARLSTGIPKEWRRKVWLTADHYLHSIAIDWDKTMRTFNERS NPDDDSMGIIQIVKDLHRTGCSSYCGQBAEQDRVVLKRVLLAYAR WNKTVGVCQGFNLAALILEVMENEGDALKIMITYLIDKVLPE YFVNNLRALSVDMAVFRDLRLMKLPESLQHLDTLQRTANKESGG GYEPPLTNVFTMQWFLTLFATCLPNQTVLKIWDVSVFEGSEIIL RVSLAIWAKLGEQIECCETADEFYSTMGRLTQEMLENDLLQSHE LMQTVYSMAFFFPQLAELREKYTYNITPPPATVKPTSVSGRHS KARDSDEENDPDEDVAVNAVGLGPFSGFLAPELQYKQKIKE PNEEQSLRSNNIABLSPGAINSCRSEYHAAFNSMMMERMTDIN ALKRQYSRIKKKQQQVHOVYIRADKGPVTSILPSQVNSSPVIN HLLGKKMKMTNRAAKNAVIHHPGHTGGKISPVYEDLKTCLNS PWETHIRVHKNMPTKSHPGCGDTVGLIDEQNEASKTNGLGAA EAPPSGCTATAGREGSSPEGSTRRTIEGQSPPEVPGDADVDVSA VQAKLGALELNQDAAATELRLVHPPCQRHCPEPPSAPBENKAT SKAPQGSNSKTPIFSPFSPVKPLRKSATARNLGLYOPTBRTPTV HFPQMSRSFSKPGGNSGP*KMVFSSGTMLSRLPGYPOEYQRN GGERFG
6165	90	406	PCQSPGRSRMRQDKLTGSLRRGRCCLKRQGGGVGTILSNVLKKE SCISRTAPRLCTLEPGVDTKLKFTLEPSLGQNGFQQWYDALK VARLSTGIPKEWRRKVWLTADHYLHSIAIDWDKTMRTFNERS NPDDDSMGIIQIVKDLHRTGCSSYCGQBAEQDRVVLKRVLLAYAR WNKTVGVCQGFNLAALILEVMENEGDALKIMITYLIDKVLPE YFVNNLRALSVDMAVFRDLRLMKLPESLQHLDTLQRTANKESGG GYEPPLTNVFTMQWFLTLFATCLPNQTVLKIWDVSVFEGSEIIL RVSLAIWAKLGEQIECCETADEFYSTMGRLTQEMLENDLLQSHE LMQTVYSMAFFFPQLAELREKYTYNITPPPATVKPTSVSGRHS KARDSDEENDPDEDVAVNAVGLGPFSGFLAPELQYKQKIKE

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			PNEEQSLRSNNIAELSPGAINSCRSFYHAAFNMMERMTTDIN ALKRQYSRIKKKQQQVHVYIRADKGPVTSILPSQVNSSPVIN HLLGKMKMTNRAAKNAVIHPIGHTGGKISPVVYEDLTKLNS PWRTHIRVHKKNMPRTKSHPGCGDTVGLIDBQNEASKTNGLGAA EAFPSGCTATAGREGSSPEGSTRRTTIEGQSPEFVFGDADVDVSA VQAKLGALELNQDAAAE TELRVHPPCQRHCPEPPSAPBENKAT SKAPQGSNSKTPIFSPFPVSVKFLRKSATARNLGLYPTERTPTV HFPQMSRSFSKPGGGNSGP*KMVSSGIMLSRQLPGYPQEQYQRN GGERFG
6166	2	1206	HKLWRTVAMAGAEWKSLEECLEKHLPLDPLQEVKRVLYGKELRK LDLPRAPFAASREDPFLQGYAFRAAEQRLRPRIHVHGLVQNR IPLPANAPVAEQVSALHRRIRKAIVEVAAMOGVNIICFQEAWTMP FAPCTREKLPTWTFABSAEDGPTTRFCQKLAKNHDMMVVSPILE RDESHGDVLWNTAVVISNSGAVLGKTRKNHPRVGDFFNESTYYM EGNLGHPVFQTFGRIVAVNICYGRHHPNLMYLSINGABII FNP SATIGALSESLWPIKARNAAIANHCFTCAINRVGTEHFPNEFTS GDGKKAHQDFGYFYGSSYVAAPDSSRTPLGSRSDGLLVAKLDL NLCCQVNDVWNFKOTGRYEMYARELAEAVKSNYSPTIVKE*PAS VPALG
6167	1220	1844	YGI V T G P S L C A G D K Q P K Q E R N F V L S P E F V D E A L C A C E Y L S N L A H M D I D K D L E A P L Y L T P E G W S L F L Q R Y Y Q V V H E G A E L R H L D T Q V Q R C E D I L Q Q L Q A V V P Q I D M E G D R N I W I V K P G A K S R G R G I M C M D H L E E M L K L V N G N P V V M K D G K W V V Q K Y I E R P L L I F G T K P D L R Q W F L V T D W N P L T W F Y R D S Y I R F S T Q P F S L K N L D K * A P L Y L T P E G W S L F L Q R Y Y Q V V H E G A E L R H L D T Q V Q R C E D I L Q Q L Q A V V P Q I D M E G D R N I W I V K P G A K S R G R G I M C M D H L E E M L K L V N G N P V V M K D G K W V V Q K Y I E R P L L I F G T K P D L R Q W F L V T D W N P L T W F Y R D S Y I R F S T Q P F S L K N L D K
6168	84	1392	VWVPSVSAMPKKQAQAGGSKABQKKKEKI IEDKT FGLKNKK GAKQKFIKAVTHQVFKGQQNPRQVAQSEARKKLKDDKKKRLQ ELNELFKPVVAAQKISKGADPKSVVCAFFKQCTKGDKCKFSH DLTLERKCKRSVYIDARDELEKDTMDNNDKKLEEVNKKHG EAEKKKPKTQIVCKHFLAENNNYGFVWVCPGGGDI CMYRHAL PPGFVLKKKKKKKKRDRISL*DLIERERSALGPNVTKITLESF LAWKKRKQEKIDKLEQDMERRKADFKAGKALVISGREVFEPFP ELVNDDEEADDTTRYTGTTGGDEVDDSVNDIDLSTLYIPRDVD ETGITVASLERFSTYTSKDKDENKLSAEGGRAENGERSDLEEDN EREGTENGAI DAVVDENLFTGEDLDLEELNLTLDLE
6169	112	662	APAAAMAERPEDLNLPNAVITRII KEALPDGVNTSKEARSATSR AASVFLYATSCANNFAMKGRKTLNASDVL SAMEEMEFQRFVT PLKEALEAYRREBQKKEASEBQKKDKDKKTDSSEQDKSRDEDN DEDEBRLEEBEQNEEBVDN*KGRETVPAPWKVPLEMRATCFCE APFCWAE
6170	62	667	STKVMLPNTGRLAGCTVFITGASRGIGKAI ALKAADGANIVIA AKTAQPHPKLIGTIYTAABRIEAVGGKALPCIVDVRDEQQISAA VEKAIKKFGGIDILVNNASATSLTNTLDTPTKRLDLMNVNTRG TYLAKACIPYLKKSVAHIPNISPPMLNPVWFKQHCGRW*VV G*GDGLCLICFELNLCMSDVITICT
6171	382	941	HFMQSDVELDCDIEPCGHTKFPPTLPLSTTVIVCSCHPVATAST MAEAFSKTTSEEDQSIQEPKANSMTAQKQK*GLRGSRRRHAN SGGDI FGDSFAAYFPRVLKQVHQALSLSQEA VSMDSMVRDILD RIATEAGHLAHYSKCVTITSRDIRMAVCLLLPGKMCKLAESQGT NATLRYTKSK
6172	651	54	GLCRAGGAHRFSRTHVEAALKMLRREARLRREYLRYRKAREBAQR SQAQRKRLRLRALEENRLIPTELRLREALALQGSLEFDDAGGBCV TSHVDDEYRWAGVEDPKVMITTSRDPSSRLKMFALKLVPFGA

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			QRMNRGRHEVGALVRACKANGVTDLLVVEHRGTPVGLIVSHLP FGPTAYFTLCNVVMRHDIPDLGTMSEAKPHLITHGFSSRLGKRV SDILRYLPFPVPPDDSHRVITFANQDDVISFRHHVYKKTDRHNV LTEVGPRPELKLMIRLGTLEQATADVWRNHPPYNTARKRVF LSTE*AAPRPLGQLL
6173	3	288	SVDHREVVQLSQSMPLTPHQAVALRGERPYMCVECGKCFGRSSHL LQHQRIHTGKPYVCSVCGKAFSSQSSVLSKHRTIHTGKPYECN ECGKAFRVSSDLAQHHKIHTGKPEHCLECKAFTQLSHLIQHQ RIHTGERPYVCPLOGKAFNHSTVLRSHQRVHTGKPHRCNECGK TFSVKRTLLQHQRIHTGKPYTCSECGKAFSDRSVLIQHNVHT GEKPYECSECGKTFSHRSTLMNHERIHTSEKPYACYECGKAFVQ HSHLIQHQVHRKL*PTCVLSVGSALAGVPTSPSISVSTLERSP MCAVYVGRPSARAQSLVNTQQPTQVRSFMSVMSVEKPLE
6174	1060	959	PRPPGKRWVAGLGNPGLPGRHSVGMVAVLGQLARRLGVAESWT RDRHCAADLALAPLGDALVLLRPRRLMNANGRSVARAAELFGL TAEVYLVHDELDKPLGLRLALKLGGSARGHNGVRSCISCLNSNA MPRLRVGIGRPAHPEAVQAHVLCFSPARQELLPLLLDRATDLI LDHTRERSQGPSLGP*H*WFSKKA
6175	2204	334	RYFRADPRSRSGQPRAEGLGAFAGPLRAMAAPVKGNRKQSTEG DALDPPASPKPKAGKQNGIQNPISLEDSPEAGGEREEBQEREBO AFLVSLYKFMKERHTPIERVPHLGFKQINLWKIYKAVEKLGAYE LVTGRRLLKKNVYNELGSGSPGSTSGATCTRRHY*RLVLPPYVRHLK GEDDKPLPTSKPRKQYKMAKENRGDDGATERPKKAKEERRMDQM MPGKTKADAADPAPLPSPQEPNRNSTEQQGLASGSSVSFVAGSGC PEAYKRLSSPYCKGTHGIMSPLAKKLLAQVSKVEALQCQEEG CRHGARPQASPAVHLPESPOSPKGLTENSRRHLTPQBLQAPGG SLREEAAGPCPAAPIPKGCFTYTHPTVLEKPVSPHPRDFFSRLK DGVLLGPPGKRGSLVKEPQLVWGGDANRPSAFHKGGSRKGLIYP KPKACNVSPMAKVPAESPTLPPTFPSSPGLGSKRSLEERGAHS GKRLRAVSPFLKEADAKKCGAKPAGSGLVSCLLGPALGPVPEA YRGTMHCPINFTGTGPGPLGQAALPFSPLVTPAPPAHFLATAG PSPMAAGLMHFPPTSFDLSALRHRLCPASSAWHAPPVTTYAAPHF EHLNTKL
6176	1040	402	PLSALRAMAEVHVIGQIIGASGFSESSLFCKWGIHTGAANKLLS GVREGQTQVDTPOIGDMAYWSHPIDLHFATKGLQGWPRLHFQVW SQDSFGRCQLAGYGFCHVPSSPGTHQLACTWRPLGSWRRLAR AFVGGGPQLLHGDTIYSGADRYRLHTAAGGTVHLEIGLLLENFD RYGVEC*GTLPTPTSPPTPTPTSDGGGWHSGQEHRL
6177	1400	992	VPIESLVGKVHNPFLIAPYCCEKGRQPHKSLHDCFCGRALDPN CSHCYLDQIKRSDFLGFSGYSPHFVAISTNSRHMQPSSMQQAL PSQ*PYWTDPRPALVPCCSHRPDVHRSRPGPLPGTSGCSDRPP VCP I
6178	1027	254	STQRGGIGKVARAASLVGRRRRAGTGMAALLCLVCLTAALAHGCL HCHSNFSKKFSFYRHVNFKSWWVDIPVSGALLTDNSDDTMKE LHLAIPAKITREKLDQVATAVYQMDQLYQGMYPFGYFPNELR NIPREQVHLIQNAIIESRIDCQHRGIFQYETISCNNCTDSHVA CFGYNCESSAQWKS AVQGLLNYINNWHKQDTSMRPRSSAFSWPG THRAAPAFVLVLPALRCLEPPHLANLSLEDA*CLKQH
6179	806	276	RGETREMAGNLLSGAGRLWDNVFLACRSFSLGVPRILIGIRLTL PPPKVVDNRNNEKRAMFGVYDNIGILGNFEKHPKELIRGPIWLRG WKGNELQRCIRKRMVGSRMFADDLHNLNKRIRYLYKHFNRHGK FR*KRRLRTSEKAHLSPPWRRTVLPPVRKRLCIFSVIKWGFPGI
6180	156	1833	DHILKAASTTHVCARGNIPAINTRCL*ATATPSSLECON* SHLSLCLPLPATTSGLTNSMIPKBRQNTAERLLRVMCADLGL SVVSGKEFLKLAQTLVDSGARYGAFSVTEILGNFTLALKHLPR MYNQVKVKTALGSGNACLGIGVTCHSQQSVGPDSCYILTAYQAE

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			GNHIKSYVLGVKGADIRDSGDLVHHVQNVLSEFVMSEIRTVVYV TDCRVSTSAFSGKAGMCLRCSACALNSVVQSVLSKRTLQARSMHE VIELLNVCEDLAGSTGLAKSTFGSLEETSPPPCWNSVTDLSLLV HRRYEQICEFYSRACKMNLIQSLNKHLLSNLAAILTPVKQAVIE LSNESQPTLQLVLPYVRLEKLPKAKANDACTVSKLCHLFLBAL KENFKVHPAHKVMILDPQQLRPVPPYQHEEIIIGKVCELINEV KESWAEBADEFBPAKKPRSAAVENPAQEDDLGKNEVYDYLQES PLFOATPDLFQYWSCVTQKHTKLAKLAFWLLAVPAVGARSQGVN MCEQALLIKRRRLLSPEDMNKLMFLKSNML
6181	169	1032	TRTILSPVLLPGPRWKPWRPMPGCLALPAWLQPRYRKNAYLFI YYLIQFCGHSWIFTNMTVRFSSFGKDSMVDTFYAGLVMRLCQS VSLJELHLIYVGIESNHLLPRFLQTERIILFPVITTSQEEVQES KYVVCVLPVFNLLDMVRYTYSMLSVIGISYAVLTWLSQTLWMP IYPLCVLAFAFYQSLPYFESFGTYSTKLFPDLISYIPYVULKI YLMMLFIGMYPTYSHLYSERRDILGIFPIKKKKM*STAFQCDTR KDRLNIQCSK*NTGSILVEKFLVF
6182	1769	1224	AS*IDYQNTLLKEFQLTEENTKLRYLTCSLIEDMAAAYFPDCI VRPFGSSVNTFGKLGCDLDMFLDLDETRNLSAHKISGNFLMEFQ VKNVPSEIRIATQKILSVLGECLDIHFGPGCGVQVQKILNARCPVLR FSHQASGPOCDLTNNRIALTSSSELLYIYGALDSRVRLVFSVR CMARAHSLTSSIPGAWITNFSLTMMVIFFLQRRSPPIILPTLDSL KTLADAEDKCVIEGNNCTFVRDLRSIKPSQNTETLELLLEKFFB YFGNFAFDKNSINIRQGREQNKPDSSPLYIQNPPTSLSNISKNV SQSQLQKFVLDLARESAWILQVEDTDRPSSISNRPNGLVSLLLPS APNRKSFTKKSNKFAIETVKNLLESLEKGNRTENFTRTSGKRTI STQT
6183	1118	452	HLDRYIKSPGSGSSTPAPPSHLLLYLHHPQSTRTMGCCGCSRG GSGCGGCGG99CGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG RCYVPVCCCKPVCSWVPACSCCTSCGCGGSGKGGCGGCGGSGGG GSGCGCSQSSCCCKPCCSSGCGSSCCQSSCCCKPCCQSSCCVPVC CQSSCCCKPCCQSNCCVPVCQCKI*GSGPRPSGFSCLVKAFLM VP
6184	1	2191	IVTVREEDGAPAVAPPGVUVSRANKRSGAPGSGGGGARGAEE EPPPPPLQAVLVADSFDRRFPFISKDQPRVLLPLANVALIDYTL FLTATGVQETTFVFCCKAAQIKHLLKSKWCRPTSLNVRIITS ELYRSLGDVLRDVAKALVRSDFLLVYGDVISNINITRALEHR LRRKL*KNVSVMTMIFKSSPSHPTREHNVVAVDSTTNRVL HFQRTQGLRRFAFPLSLFQSSDGVEVRVLDLDCHEISICSPQVA QLFTDNFDYQTRDDFVRGLLVNEEILGNQIHMHVTAKEYGARVS NLHMYSAVCADVIRRWVYPLTPEANFTDSTTQSCTHSRHNIYRG PEVSLGHGSLERNVLLSGGTVIGSNCFITNSVIGPGCHIEPGD NVVLDQTYLWQGVRAAGAQIHQSLLCDNAEVKERVTLKPRSVL TSQVVVGPNITLPEGSVISLHPPDABEDBDDGEBFSDSGADQEK DKVKMKGYNPAEVGAAGKGYLWKAAGNMEEEEELQNLWGLKI NMEEESESESEQSMDSSEBPSRGGSPOMDDIKVFQNEVLGTLQR GKEENISCDNLVLEINSLKYAYNISLKEVMQVLSHVVLFPPLQ MDSPLDSSRYCALLPLLKAWSPVFRNYIKRAADHLEALAAIED FFLEHREALGISMAKVLMAFYQLEILARETILSNFSDQRTTQKQ QLRKNQQLQRFIQWLKEAEESESD
6185	791	44	PCTSCVLNATLHLFSTRKAPQAECCMISITWQKIGVGITGFG IFFILFGTLLYFDSVLLAFGNLLFLTGLSLIIGLRKTFWFFPQR HKLKGTSLFLLGGVIVLLRWPLLGMELETYGFPSLFKGFPPVAF GFLGNVCNIPFLGALFRRLQGTSSMV*KTEMSSNLNHLKGA RREWEPPPPQSPALTHSPYPGPPQVQKERNGAELTSNPQVDSR GCQEAEMQTPRRLGWGNVHTLTLYLWEEK
6186	569	238	VYGDSSNTNTHGAEERNRKLKHNKILCHAQSRDLVNGLALKMA

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			KERKVKNKVRNKADTEEVFNNSPTNQKMPSTAILPDSGSSVIS NIRNQMETLHSQPHQENLCFENSFSLINLLPINAVEPTSSQOI PNRETSEANKERRKMTSKSSSENIYSPITSPTTADSELHDIKD LEDCLMVGLHTCGDLAPNLTIRIFTSNBEIKGVCSVGCYHLLSR EFENQHKERTQEKWGFPMCHYLKEERWCCGRNARMSACLALERV AAGQGLPTESLFYRAVLQDIIDCYGITKCDRHVGKIYKCS9F LDYVRRSLKRLGLDESKLPBKIMNYEYKYPMMNELRAFNMLK VVLAPCIETLLDLRLCYLKEQEDIAWSALVKLFDPVKSPRCYA VIALKKQQ*FPLKQIIRCISL*DSAGCAEEVSVGDGGPALRDAP PSGSRVGSRYD
6187	1701	771	DANGPETRLARILNPDSEFIEPRPGRLPLEATRPHMEPKASCPA AAPLMERKPHVLVGVTCVSVAALKLPILLVSKLLDIPGLEVAVVT ERAKHFYSPQDIPVTLYSDADEWEMKSRSDPVLIIDLRWADL LLVAPLDANTLGKVASGICDNLCTCMRAWDRSKPLLFCPAMNT AMWEHPITAQQVDQLKAFGYVEIPCAKKLVCGDEGLGAMAEVG TIVDKVKEVLFQHSQFQOS*PGISVMGVPLYSEWVQAKSVKMDV GKIGGYPHLLNGGPALS LPRGQACSRLNWTGPGLSFPQGEAA A
6188	238	1534	KGFVNAGFLMARLQVSPQWKAPEMSQICLSCGHPSA*GPRNAEW NIGVFICIRCAGIHRNLGVHISRVKSVNLDQWTQEQIQCMQEMG NGKANRLYEAYLPETPRRPQIDPAVEGFIKDYKCKKYMDSRLD INAFRKEKDDKWKRGSEPVPEKCLEPVVFEKVKMPQKKEDPQLP RKSSPKSTAPVMDLLGLDAPVACSIANSKTSNTLEKDLDLASV PSPSSGSRKVVGSMP TAGSAGSVPENLNLFPEPGSKSEEIGKK QLSKDSTLSLYGSQTPQMPTQAMFMAPAQMAFYPTAYPSFGVTP PNSIMGSMPPFPVGMVAQPGASGMVAPMAMPAGYMGGMQASMMG VPNGMMTTQQAGYMAGMAAMPQT VYGVQPAQQLQWNLQTMTQCM AGMNFYGANGMMNYGQSSMGSEBQAANQTLSPQMWK
6189	1297	793	LGEPLGDLCELIPGDVQQLQMGVEHFGTGAQGSAAQSVAGEVQL TQLSHARQRPSCQGSQIALDLQHMDSRQPRWQHVPVARQVO RAQQAQLAGVAVHLWAGDAVVAEVELLOEVEGGGKVFANACDL VVQDHEGAHAARQATGHALQRTVQVRRVQPLEAL*RVPSGLER RVRAFMLLNQITGIGREFATTYFLEKLNLNRYNRTSPQVHRD AFRKLRLRLSLDLSGNRLHMLPPGLPRNVHLKVRNRLAALAR GALAGMAQLRELVLTSNELRSRALGPRAWDLAHLQLLDIAGNQ LTIPEGLPESLEYLYLQNNKISAVPANAFDSTPNLKGIFLRFN KLAVGSVVDSAFRRLKHLQVLDLBNLEFGDISKDRGRLGKEKE BEDEVEVEEETR
6190	66	1309	ILVGNVSFLLSFAEYVCNCSVVGSLNVNRCNQTGTQCECRPGYQ GLHCETCKBGFY..NYTSGLCQPCDCSPHGALSIPCNSSGKCQCK VGVIGSICDRQDGYGFSKNGCLPCQCNRSASCDALTGACLN QJENS KGNHCECKEGFYQSPDATKECLRCPCSAVTSTGSCSIK SSELEPECDQCKDGYIGPNCNKCENGYNFDSICRKCQCHGHVY FVKTPKICKPRSGECINCLHNTTGFWCENCL*GYVHDLGNCIK KVILPTPEGSTILVSNASLTTSVPTPVINSTFTPTTLQTIFSVS TSENSTALADVSWTQFNIIILTVIIIVVULLMGFVGAVMYRE YQNRKLNAPFWTIELKEDNISFSSYHDSIPNADVSGLLEDGNE VAPNGQLTLTTPIHNYKA
6191	1212	1511	VNLCHGGLLHLSTHHLGIRPSMH*LPFLMLSPPHLTPQPKCPS MIDWIKKIWIYITMEYATIKRNEIMFFAGTWEMEAIIILSKLM QDYMFSLISGS
6192	3	950	TRGCGNKMAGKKNVLSLAVYAEDSEFESDGEAGIEAVGSAEE KGLVSDAYGEDDFSRIGDEDEGYEEEDENSROSEDDOSETK PRADDPKDNTEARKDPQRLVASFSBRVRNMSPEDEIKIPPEPPG RCSNHLQDKIQKLYERKKIKEGDMNYIIQKKKEFRNPSIYEKLI QFCAIDELGTNYPKDMFDPHGWSSEDSYBALAKAQKIEMDKLEK

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			AKKERTKIEFVTGTGKGGTTTATSTTTTASTAVADAQKRKSKW DSALPVTTLIAQPTILTTATLPAVVTVTTSASGSKTTVISAVGT IVKKAKQ
6193	3	950	TRGCGNKMAGKKNVLSSLA VYAEDSESPESDGEAGIEAVGSAAE KGLVSDAYGEDDFSRLLGGDEGGYBEBEDENSRQSEDDDSSETEK PEADDPKONTAEKRDPOELVASFSESRVRNMSPEIKIPPEPPG RCSNHLQDKIQKLYERKIKGMDMNYIIQRKKFPRNPSIYEKLI QPCAIDELGTYNPKDMFDPHGWSEDSYREALAKAQKIEMDKLEK AKKERTKIEFVTGTGKGGTTTATSTTTTASTAVADAQKRKSKW DSALPVTTLIAQPTILTTATLPAVVTVTTSASGSKTTVISAVGT IVKKAKQ
6194	3	950	TRGCGNKMAGKKNVLSSLA VYAEDSESPESDGEAGIEAVGSAAE KGLVSDAYGEDDFSRLLGGDEGGYBEBEDENSRQSEDDDSSETEK PEADDPKONTAEKRDPOELVASFSESRVRNMSPEIKIPPEPPG RCSNHLQDKIQKLYERKIKGMDMNYIIQRKKFPRNPSIYEKLI QPCAIDELGTYNPKDMFDPHGWSEDSYREALAKAQKIEMDKLEK AKKERTKIEFVTGTGKGGTTTATSTTTTASTAVADAQKRKSKW DSALPVTTLIAQPTILTTATLPAVVTVTTSASGSKTTVISAVGT IVKKAKQ
6195	736	235	VANGIQSNMPPKPYCDYCDTYLTHDSPVRKTHC9GRKHENVKD YYQKWMBEQASLIDKTTAAFOQKIPPTFPSPAPPAGAMIPPP PSLPGPPRPGMMAPAHMGGPPMMPMMGPPPPGMMFVGPAPGMRP PMGGHMPMPQPMPMRPPARPMMPVTRPGMTRPDR
6196	1512	623	KTGKRRSAAYVRNILDNAEQVINSLEARNLSPRLTPLIQEEDSH QRLLMGLMVSELKDHFLRLHQLGVEKKKIEQMVLDYISKLLDLIC HIVETNWRKHNLSWVLFNSRGSAAAFVAFHIMTRILEATNSL FLPLPPGFHTLHTILGVQCLPLHNLHCIDSGVLLLTETAVIRL MKDLNTEKNEKLFESIIVRLPPLIGQKICRLWDHPMSNIIISR NHVTRLLQNYKKQPRNSMINKSSPSVBFPLPNYPIEILTDIESS NQALYPPEGHNDVDAEFVEEAALKHTAMLLGL
6197	3	819	ADPEGTREAVMSRYTRPPTSLFIRNVADATRPDLRREFGRYG PIVDVYIPLDFYTRRRPGFAYVQPEDVRDAEDALYNLRKWVCG RQIEIQFAQGDRTKPGQMKSKERHPCSPSDHRRSRSPSQRRTRS RSSSWGRNRRSDSLKESRHRFPYSQSKRSKSLPRRSTGARQ SRTYFRNFGRGRSRSKSLQKRSKSIKSKQSSSPQKQTSSGTKS RSHGRHSDIARSCKSPKGYTNFETKVQTAHSHFRSHSRSS YRHKNSW
6198	111	1912	SEALSPSFISPAFLRLKLPALDGTLPHPDTLGMNVEGARSE RENHAADDSEGGALDMCCSERIPGLPQPIVMKALDEAGLQDSQ REMPPPPPPPSPSDPAQKPPPRGAGSHSLTVRSSLCLEFAASQFL LACGVLFWSGYGHIWSQATNLVSSLLTLKQLEPTAWLDSGTW GVPSLLLVFLSGGLVLTTLVWHLRTPPSPPTPLPPEDRRQSV SRQPSFTYSEWMBEKIEDDFLDLDPVPHTPVFDVMDIKPEADP TSLTVKSMGLQERRGSNVSLTDMCTPGCNEEGFGYLMSPREES AREYLLSASRVIAEELHEKALDPFLQAEFFIIPMNFPDPKEY DIPGLVRKNRYKTLNPNPSRVCLTSPDPPDPLSSYINANYIRG YGGEKVYIATQGPVSTVADFWRMVWQHTPIIVMITNIEEMN EKCTEYWPPEQVADGVETVQKVIHTEDYRLRLISLKSGETER GLKHYWFTSWPDQKTPDRAPPLHLVREVEEAQQEGPHCAPII VHCSAGIGRTGCFIATSIICQQLRQGVVDILKTTCCQLRQDRGG MIQHCEQYQFVHHVMSLYERQLSHQSP
6199	144	1211	MARENGSSSSWKKQAEIDIKKIFEFKETLGTGAFSEVVLAREKA TGKLFVAKCIKKKALKGKESSIENEIAVLRLKIHENIVALELDIY ESPNNHLYLVMLVSGGELFDRIVEKGFYTEKDASTLIRQVLDAV YYLHRMGIHVRDLKPNLLYSQDEESKIMISDPGLSRMEGKGD VMSTACGTPGYVAPEVLAQRPYSKAVDCWSIGVIATILLCGYPP

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			FYDENDSKLFEQILKAEYFDSFYWDDISDSAKDFIRNLMKDP NKRYTCEQAARHPWIAAGDTALNKNIHESVSAQIRKNFAKSKWRQ APNATAVVRHMRKILHGLSSLDSSNASVSSSLSLASQKDCASGTF HAL*
6200	702	96	LPEVPHSLRPRVKPHLCCAQPAVRVMARLPKLAVFDLDYTLWPF WVDTHVDPFPHKSSDGTVRDRRGQDVRLYPEVPEVLKRLQSLGV PGAAASRTSEIEGANQLLRLFDLPRYFVHREIYPGSKITHFERL QQKTGIPFSQMIFFDDERRNIVDVSKLGVTCIHQNGMNLQTL S QLETTFAKAQTGFLRSSLSRSPFEA
6201	2809	2383	GQTPRVWKMRRSLRAGKRQTAGRKSKSPPKVPIVIQDDSLPA GPPQIRILKRPTSNVSSPNSTSRPTLPVKSLAQREAEYARA RKRILGSASPEREQEKPILDRPTRISQPEDSRQNNVIRQPLGP DGSQGFQRR
6202	2	426	INADRAAVASSLSRPRTRKMAPOKDRPKRSTWRNLDLTHPVE DGIFFDSGNFEQFLREKVKVNGKTGNLGNVHRRPKNKITVVS E KQFSKRYLYLTKYLYLKNLNRDLRVVVASDKETELRYFQISQ DDESESED
6203	419	2550	RCRPPATACAAASRPDRSPPSGSGSEAAAGAGAAAPASQHPA TGTGAVQTEAMKQILGVIDKLRNLKKGKGLDDYQERMNRGER LNQDQLDAVSKYQEVNTNLEFAKELQSPMALSQDIQRTIKKTA RREQLMRBAEQKRLKTVLELQYVLDKLGDDVTRTDLKQGLNGV PILSEELSLDDEFYKLVDPERDMSLRNLNQEYHASIHLWDLLE GKEKPCVGTYYKVLKEIVERVFQSNYFDSTHNGNGLCEEZBA A SAPAVEDQVPEAEPEAEYTEQSEVESTRYVNRQFMAETQPTS GEKEQVDWETVETRVVNSLQQQPOAASPSVPEPHSLTPVAQAD PLVRRQRVQDLMAQMGPPYNTIQDSMLDFENQTLDPAIVSAQPM NPTQNMMDPQLVCPVHSESLAQPNQVPVQPEATQVPLVSSTS EGYTASQPLYQPSHATEQRQKBPIDQIQATISLNTDQTASS S LPAASQPVFQAGTSKPLHSSGINVNAAPFQSMQTVFAMNAPVP PVNEPETLQQNQYQASYNQSFSSQPHQVEQTELQOEQLQTUVG TYHGSFDQSHQVTGNHQPPQNTGPPRSNQPYNSRGVSRGGS RGARGLMNGYRGFANGFRGGYDGYRPSFSNTFNSGYTQSQFSA P RDYSGYORDGYQQNFKRGSGQSGPRGAPRGGRGPPRPNRGMPEM NTOQVN
6204	2933	787	CTHNLISLLGGRALIHFNRLNLKIQEGEBAHNIFCPAYDCFLV PGDIKSVSVSKEMDRRYLQFDIKAFVNNPAIKWCPTGCDRAV RLTKQGSNTSGSDTLSPFLLRAPAVDCGKGLFCWECLGRAHEP CDCQTWKNWLOKITEMKPEELVGVSRAVEDAANCLWLLTNSKPC ANCKSPIQKNBGCNMQCAKCKYDFCWCLEEWKKS FVHWEVI YRCTRYEVIQHVEEQSKEMTVAEKKHKRFQELDRFMHYTRFK NHEHSYQLBQRLKTAKEKMEQLSRALKETEGGCCPDITFIEDAV HVLLKTRRLKCSYPYGFLEPKSTKKEIFELMQTDLEMTEDL AQKVNRPYLRTPRHKI IKAACLVOQKRQEPASVARGVAPADSP EAPRRSFAGGTWDBYLGFASPEYAEFQYRRHRQRRRDVHS LLSNPPDPDEPSESTLDIPEGSSSRPGTSVVSSASMSVLHSS SLRDYTPASRSRNDLSLQALSSLOEDDPNILLAIQLSLQESGLA LDEBTRDFLSNEASLGAIGTSLPSRLDSVPRNTDSPRAALSSSE LLELGDLSMLGAENDPSTDTLSSHPLSEARSDFCPSSSDPDS ACQDPNINDNLLGNIMAWPHDMNPQSIALIPPATTEISADSQLP CIKDGSEGVKDLVELVLPEDSMFEDASVSEGRGTQIEENPLEENI PGGGKQHPQAW
6205	1	1200	RAHRGKMALEVGMEDGQLSDSDSDMTVAPSDRELQLPKVLGGD SAMRAFQNTATACAPVSHYRAVESVDSSERSFSDSDDDSCWLKR KRQKCFNPPPKPEPFPFGQSSQKPPVAGGKINNIGAVLQEBN QDAVATELGILGMEGTIDRSRQSETYNLLAKKLKESQEHKTD LDKELDEYMHGGKRMGSKBEENGQGLKRRKRPVKDRLGNRPEMN

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			YKGRYEITARDSQEKVADEISFRLQEPKKDLIARVVRITGNKKA I3LLMETAEVEQNGGLFIMNGSRRRTPGGVFLNLLKNTPSISEE QIKDIFYIENQKEYENKKAARKRRQTQVLGKKMKQAIKSLNFQED DDTSRETFASDTNEALASLDESQEGHAEAKLEAEEAIEVDHSHD LDIF
6206	10	1442	IIISERRERSCLHLVCIRCSCDVVEMGSVLGLCSMASNIPCLCGS APCLLCRCCPSGNNSTVTRLIYALFLLVGVACVACVMLIPGMEEQ LNKIPGPCENKGVVPCNILLVGYKAVYRLCFLGLAMPYLLLSLLM IKVKSSSDPRAAVHNGFWFFKFAAAIAIIGAPFIPEGTFPTVW FYVGMAGAFCTILIQVLVLLIDFAHSWNESWVEKNMBGNSRCWYA ALLSATALNYLLSLVAIVLFFVYYTHPASCSNKAFISVNMLLC VGASVMSILPKIQESQPRSGLLQSSVITVYTMVLTWSAMTNEPE TNCNPSLLSIIGYNTTSTVTPKEGQSVQWHAQGIIGLILFLLCV FYSSIRTSNNQVKNLTLTSDSTLIEDGGARSDDGSDGDDVH RAVDNERDGVTSYSFFHFMLFLASLYIMMTLTNWRYEYPSREM KSQWIAVWVKISSSWIGIVLYVWTLVAPLVLTNRDFF
6207	2924	1471	TVMAEAATPGTATTSGAGAAAATAAASPTPIPTVTPAPSLGAG GGGGGSDGSGGGWTKQVTCRYPMHGVCKEGDNCRYSHDLSDSFY SVVCKYFQRGYCIYGDRCRYEHSKPLKQEEATATBLTKSSIAA SSSLSSIVGPLVEMNTGEAESRNSNFATVGAGSEWDVNAIEFVP GQPYCGRTAPSCTEAPLQGSVTKESSEKEQTAVETKKQLCPYAA VGECRYGENCVYLHGDSDDMCGQLVLPMDAAQRSQHIKSCIEA HEKDMELSAVQSRKDMVCGICMEVVYKKNPSERRFGILSNEN HTYCLKCKIRKWSAKQFESKIIKSCPECRITSNFVIPSEYWVEE KEEKQKLLKYKRAMSNKACRYFDEGRGSCFPFGNCIFYKHAYPD GRRBEPQKQVGTSSRYRAQRNHFELIEERENSNDPNDDEE VVTFFELGEMLLMLAAGGDELTDSEDEWDLPHDELEDFYDLDL
6208	2924	1471	TVMAEAATPGTATTSGAGAAAATAAASPTPIPTVTPAPSLGAG GGGGGSDGSGGGWTKQVTCRYPMHGVCKEGDNCRYSHDLSDSFY SVVCKYFQRGYCIYGDRCRYEHSKPLKQEEATATBLTKSSIAA SSSLSSIVGPLVEMNTGEAESRNSNFATVGAGSEWDVNAIEFVP GQPYCGRTAPSCTEAPLQGSVTKESSEKEQTAVETKKQLCPYAA VGECRYGENCVYLHGDSDDMCGQLVLPMDAAQRSQHIKSCIEA HEKDMELSAVQSRKDMVCGICMEVVYKKNPSERRFGILSNEN HTYCLKCKIRKWSAKQFESKIIKSCPECRITSNFVIPSEYWVEE KEEKQKLLKYKRAMSNKACRYFDEGRGSCFPFGNCIFYKHAYPD GRRBEPQKQVGTSSRYRAQRNHFELIEERENSNDPNDDEE VVTFFELGEMLLMLAAGGDELTDSEDEWDLPHDELEDFYDLDL
6209	1758	829	ERLCFFPCMQSKIYSYSPNKCQSMRFPPLQENSVTHHEVCKQSK PLAGIYRKREKRNAGNAVRSAMKSEBQKIDARKGPLVFPFNO KSRAAEPPKTPPSSCDSTNAATAKQALKKPIEGKQAPRKKQSK TQQRKLTDFYPVRRSSRSKABLQSEKRRKIDELBSGKBEGM KIDLIDGKGRGVIATKQFSRGDFVVEYHGDLIBITDAKKREALY AQDPSTGCYMYFQYLSKTYCVDATRETNRLGRLINHSCGNCQ TKLHDIDGVPHLILIASRDLAAGEELLYDYGDRSKASTRAHPWL KH
6210	3761	387	IFGMSKLRMVLLLEDSCSADFRRHFNLSPTITVVLISACFVT SSLGTDKELRLVDGENKCSGRVEVKVQEEWGTVCNNGWSMEAV SVICNQLGCPATAIKAPGWANSSAGSGRIWMDHVSRCRGNESALWD CKHDGWSGKHSNCTHQDAGVTCSDGSNLEMLTRGGNMCSGRIE IKFQGRWGTVCDDNFNIDHASVICRQLECGSAVSFSGSSNPGEG SGPIWFDLINCNGESALWNCKHQGWGKHNCDAEDAGVICSKG ADLSLRLVDGVTECSGRLEVRFGQEWGTICODGWDSDYDAVACK QLGCPTAVTAIGRVNASKGFGHIWLDVSVCQGHFAVWQCKHHE WGKHYCNHNEAGVTCSDGSDLELRLRGGGSRCAGTVEVEIQR LGKVCDRGWGLKEADVVCRLGCGSALKTSYQVYSKIQTNTWL

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			<p>FLSSCNGNETSLWDCKNWQGGTLCDHYREAKITCSAHREPRIV GGDIPCSGRVEVKHGDITWGSICDSDFSLEAASVLCRELQCGTVV SILGGAHFGEGNGQIWAEFQCEGHESHLSCPVAAPRPEGTCSH SRDVGVCSSRYTEIRLVNGKTPCEGRVELKTLGAWGSLCNSHWD IEDAHVLCQQLKCGVALSTPGGARFGKNGQIWRHMFHCTGTETQ HMGDCPVTALGASLCPSEQVASVICSGNQSQTLSSCNSSSLGPT RPTIPBESAVACIESGQLRLVNGGGRCAGRVEIYHEGSGWTICD DSWDLSDAHVVCRLQCGEALNATGSAHFEGGTGPINWDEMCKN CKESRIWQCHSHGWGQONCRHKEDAGVICSEFMSLRILTSEASRE ACAGRLEVFYNGAWGTVGKSSMSETTVGVVCRQLGCADKGIKINP ASLDKAMSIPMWVDNVQCPKGPDTLWQCPSSPWEKRLASPSSET WITCDNKIRLQEGPTSCSGRVEIWHGGSGWGTVCDDSWDLDDAQV VCQQLGCGPALKAFKRAEFGQGTGPINWNEVKCKGNESSLWDCP ARRWGHSECGHKEDAAVNCTDISVQKTPQKATTGRSSRQSSFIA VGILGVVLLAIFVALFPLTKRRRQRQRLAVSSRGENLVHQIQYR EMNSCLNADDLDLMNSSGGHSEPH</p>
6211	3761	387	<p>IFGMSKLRMVLLSDSGSADFRHFVNLSPTTITVVLILLSACFVT SSLGGTDKELRLVDGENKCSGRVEVKVQRENGTVCNNGWSMEAV SVICNLQGCPTAKAPGWANSSAGSGRIWMDHIV9CRGNESALWD CKHDGWSKHSNCTHQDAGVTCSDGSNLEMLTRGNMCSGRIE IKFQGRWGTVCDDNFNIDHASVICRQLECGSAVSFSGSSNFGEG SGPIWFDDLICNGNESALMNCKHQGWGKHNCDAEDAGVICSKG ADLSRLVDGVTECSGRLEVRFGQEWGTICDDGWSYDAAVACK QLGCPTAVTAIGRVNASKGFGHIWLDVSVCQGHAPVWQCKHRE WGHYCNHNEAGVTCSDGSDLELELRGGGSRCACTVEVEIQRL LGKVCDRGWGLKEADVCRQLGCGSALKTSYQVYSKIQTNTWL FLSSCNGNETSLWDCKNWQGGTLCDHYREAKITCSAHREPRIV GGDIPCSGRVEVKHGDITWGSICDSDFSLEAASVLCRELQCGTVV SILGGAHFGEGNGQIWAEFQCEGHESHLSCPVAAPRPEGTCSH SRDVGVCSSRYTEIRLVNGKTPCEGRVELKTLGANGSLCNSHWD IEDAHVLCQQLKCGVALSTPGGARFGKNGQIWRHMFHCTGTETQ HMGDCPVTALGASLCPSEQVASVICSGNQSQTLSSCNSSSLGPT RPTIPBESAVACIESGQLRLVNGGGRCAGRVEIYHEGSGWTICD DSWDLSDAHVVCRLQCGEALNATGSAHFEGGTGPINWDEMCKN CKESRIWQCHSHGWGQONCRHKEDAGVICSEFMSLRILTSEASRE ACAGRLEVFYNGAWGTVGKSSMSETTVGVVCRQLGCADKGIKINP ASLDKAMSIPMWVDNVQCPKGPDTLWQCPSSPWEKRLASPSSET WITCDNKIRLQEGPTSCSGRVEIWHGGSGWGTVCDDSWDLDDAQV VCQQLGCGPALKAFKRAEFGQGTGPINWNEVKCKGNESSLWDCP ARRWGHSECGHKEDAAVNCTDISVQKTPQKATTGRSSRQSSFIA VGILGVVLLAIFVALFPLTKRRRQRQRLAVSSRGENLVHQIQYR EMNSCLNADDLDLMNSSGGHSEPH</p>
6212	1	1134	<p>LKWE LRPGGAVWGTGRGAGTGAPRSCCCQTNPGPPSSLRRAFRR RELPPACHEIGLGAEGSGPPAPAPARESRSRAMEEEASSPGL GCSKPHLEKLTIGITRILESSPGVTEVTIEKPPAERHMISSWE QKNNCVMPEDEVKNFYLMINGFHTWSVKLDEHIIPLGSMAINS SKLTQLTQSSMYSLPNAPTLADLEDDTHEASDDQPEKPHFDSRS VIFELDCNGSGKVCLVYKSGKPALARDTEIWFDRALVWHPLT DTFTAYYRLILTHGLPQWQYAFTSYGISPAQQRVSMYKPIITY NTNLLTEETDSFVNKLDPKVFKSKNKIVIPKKKGPVQAGGQK GPSGPPSGPSTSSTSKSSSGGNPTRK</p>
6213	1	1134	<p>LKWE LRPGGAVWGTGRGAGTGAPRSCCCQTNPGPPSSLRRAFRR RELPPACHEIGLGAEGSGPPAPAPARESRSRAMEEEASSPGL GCSKPHLEKLTIGITRILESSPGVTEVTIEKPPAERHMISSWE QKNNCVMPEDEVKNFYLMINGFHTWSVKLDEHIIPLGSMAINS SKLTQLTQSSMYSLPNAPTLADLEDDTHEASDDQPEKPHFDSRS</p>

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			VIFELDSCNGSGKVCVYKSGRPALAEDEIWFIDRALYNHFLTDTFTAYYRLLI THLGLPQWQYAFSTSYGISFOAKORVSMYKPTIYNTNLLTERTDSFVNKLDPSKVFKSKNKIVIPKKKGPVQPPAGGQKGPSGSPGSPSTSSSTKSSSGSGNPTK
6214	2	460	HELAPSAIRRAARLGLPARWQSRRAAFYFVRGFRIGWSFVGWVVLGTSAKRTRLFFFLSKMAASSRAQVLAALYRAMLRKSRFSAYNYRTYAVRRIRDAFRENKVNKDPVEIQTLVNKAKRDLGVIRRQVHIGQLYSTDKLIENRDMPT
6215	2	1849	FVAGGPRGSGSAAETMPETIRVTPLGAGQDVGRSCILVSLAGKNVMLDCGMHMGFNDRRFPDFSYITQNGRITDFLDCVILSHFHLDCGALPYFSEMVGYDGPITYMHTPTQAI CPILEDDYRKIAVDKKGEBANFTTSQMIKDCMKKVAVHLHQTUVQVDDLEIKAYYAGHVLGAAMPQIKVGSSESVVYTGDNMTDPRHLGAAWIDKCRPNLLITESTYATTIRDSKRCRERDFLKKVHETVERGGKVLIPVFALGRAQELCILLETFWERNMLKVPIYFSTGLTEKANHYYKLFIPWTNQKIRKTFVQRNMPBFKHIAFDRAFDNPGPMVVPATPGMLHAGQSLQIFRKWAGNEKNMVIMPGYCQGTGCHKLSGQRKLEMEGRQVLEVKMQVEYMSFSAHADAKGIMQLVGQABPESVLLVHGEAKKMEPLKQKIEQELRVNICYMPANGKTVTLLTSPSIPVGISLGLLKRMAOGLLPEAKKPRILLHGTLLMKDSNFRILVSSEQALKELGLAEHQLRFTCRVHLHDTRKQETALRVVYSHLKSVLKDHCVQHLDPGGSVTVRSVLLQMAAPSEDPGTKVLLVSWTYQDEBLGSPITSLKKGLPQAPS
6216	11	393	QITRPEPRNSALRQSRSKMAVGVSVSVRLIGRSRPQLGRFMSSGAHGEESGARMWKTITFPVALPGVAVSMLNVYLKSHHGEHERPEFIAYPHLRIRITPFPWGDGNHTLPHNPHVNPLPTGYEDE
6217	9	1178	TRVGRGESGLKMEVKKPPGRPQPDGRRRRRRRGEEGHDPKEPEQLRKLFIGGLSFETDDSLREHFKEKWTLDTCVVRDPQTKRSRGFGFVTYSCVEEVDAAACARPHKVDGRVVEPKRAVSREDSVKPGAHLTVKKIPVGGIKEDTEBYNLRDYFEKYKIEIETIEVMEDRQSGKLRGPAFVTDDHDTVDKIVVQKYHTINGHNCEVKALKSKQEMQSAGSQRRGRGGSGNFMGRGNGFGGGGNFGRRGNGGGGGYGGGGGSGRGSYGGGDDGGYNGFGGDDGGNYGGGPGYSSRGGYGGGGPGYGNQGGGYGGGGYDGYNEGGNFGGNGYGGGNYNDFGNYSQQQS NYGPMKCGSFGGRSSGSPYGGGYGGGGGGYGSRRF
6218	1305	906	SCERRGFIMADDLKRFLYKLLPSVEGLHATVVSDDRGVVPVIVKVANNAPEHALRPGFLSTFALATDQCSKLGSLKNSIICYNTYQVQFNRLPLVVSFLASSSANTGLIVSLEKELAPLEELRQVVEVS
6219	2	890	AGPGEGAGAGTRCAGAAEMASAGGEDCESPAPRDRPHQRFFLIGVSGGTASGKSTVCEKIMELLQONEVBRQRKVVLISQDRFYKVLTAEQKAKALKGQYNFDHPDAFDNDLMHRTLKNIVEGKTVEVPTYDFVTHSRLEPPTTVYPADVLFEGILVFYSQIRDMFHLRFPVDTSDVRLSRRVLRDVRGRDLEQILTQYTTFVKPAFEEPCLP TKKYADVIIPRGVDNMVAINLIVQHTQDILNGDICKNHRGGSNGRSYKRTFSEPGDHPGMLTSGKRSHESSSRPH
6220	227	764	BQNISLEMSCTIEKALADAKALVERLRDHDAAESLIEQTALNKRVEAMKQYQERIQELNEVARHRPRSTLVMGIQENRQIRELQOENKELRTSLREHQSALELIMS KYRQMPRLMASKDDPGIIMKLKEQHSKIDMVHRNKSEGFLLDASRHILEAPQHGLRRHLEANO NVH
6221	98	916	RNIWDLNPVSDGLELRPKYNGILHCLTTIWKL DGLRGLYQGVTPNIWAGLSWGLYFVFNALSKSYKTEGRAERLEATEYLVSAABAGAMTLCITNPLWVTKRLMLQYDAVNSPHRQYKGMPTLVKIYKYRGVRGLYKGFVPGLPGTSHGALQFMAYELLKLKYNQHINRLPEAQLSTVEYISVAALS KIFAVAATYPYQVVRARLQDQHMFSYSGVIDVITKTWRKEGVGGFYKGIAPNLIRVTPACCITPVVYENVSHFLDLREKRK

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6222	2	2116	MARELRALLLWGRRLRPLRAPALAAVPGGKPILCPRRTTAQLG PRRNPAWSLQAGRLFSTQTARDKEEPLHSIISSTESVQGSTSKH EFQAEETKLLDIVARSLYSEKEVFIRELISNASDALEKLRHKL SDGQALPEMEIHLQTNAEKGTITIQDTGIGMTQEEVLVSNLGTIA KSGSKAPIDALQNAEASSKIIGQFGVGFYSAPFVADRVEVYSR SAAPGSLGYQWLSGSGGVFEIABAGVRTGTGKIIHLKSDCKEF SSEARVRDVVTKYSNFVSFPLYLNGRRMNTLQAIWMDPKDVR WQHEEFYRYVAQADKPRYTLHYKTDAPLNIRSIFTVPDMKPSM PDVSRRELGSVALYSRKVLIQTKATDILPKWLRFRIGVVDSEDI PLNLSRELLQESALIRKLRDVLQORLIKPFIDQSKKDABKYAKF FEDYGLFMREGIVTATEQEVKEDIKLLRYESSALPSGQLTSL EYASRMRASTRNIYYLCAENRHLAEHSPPYEAMKKKDTVLFCF EQFDELTLHLREFDKKLLISVETDIVVDHYKEEFEDRSPAAB CLSEKETEEELMAWMNRNLGSRVTNVKVTLRDTHPAMVTVLEMG AARHFLRMQQLAKTQERRAQLIQPTLEINPRHALIKKLNQLRAS EPGLAQLLVDTIYNAMIAAGLVDDPRAMVGRNLKLLVKALERH
6223	3	715	DAWARTMAGMVDQDEQVKSPLENMEVECNVHCYHEKDPDGCY RLVDYLBGIRKNFDEAAKVLKFNCRENQHSDCYKLGAYVVTGK GGLTQDLKAAARCPLMACKPKGKKSIAACHNVGLLAHDGQVND GQPDLGKARDYITRACDGGYTSSCFNL SAMPLQGAPGFPKMDL ACKYSMKACDLGHIWACANASRMVYKLGQGVDKVEAKAEVLKRA QQVHEQKQKGVQPLTFG
6224	1	133	LRTISSMAWGPIILLTLAHTGSWAQSVLTQPPSVSGARTPHEK
6225	3259	938	LLSCHRLAICLPPFVSERKTMVPGQARRQAFAPAGDVTVDPT QKEWRLSPAQRALYREVTLNYSHLVSLGILHSPKELIRLEQ GEVPNGEERRRRPGPCAGIYAEHVLKPNLGLAHQROOQLQPSD QSFDSDTAEGQKEKSTKPMFSSPPLRHAVSSRRRNSVVEIES SQGQRENPTEDKVLKGIENSRWGAFCARRGQDFSRKMMVITH KKAHSRQKLFTCRECHQGFDEESALLHONHTGEEKSYVCSVCG RGFSLKANLLRHQRTHSGEKPFCLKVCGRGYTSKSYLTVHERTH TGEKPYECQECGRFPNDKSSYNKHLKAHSGEKPFCVCKEGRGYT NKSYFVVKR.IHSGEKP.YRCQECGRGFSNKSLLITHQRTHSGEK PFACROCKQSFSVKGSLLRHQRTHSGEKPFVCKDCERSFSQKST LVYHQRTHSGEKPFCVRCGQGFQKSTLVKHQITHSBEKPFVC KDCGRGFIQKSTFTLHQRTHSBEKPYGCRGRRFRDKSSYNKH LRAHLGEKRFPCRDGGRFTLKPNTLTHQRTHSGEKPFMCKQCE KSPSLKANLLRHQWTHSGERPFNCDCGRGFIKSTLLFHQKTH SGBKPFICSECGQGF.IWKS.NLVKHQLAHSGKQPFVCKEGRGFN WKONLLTHQRTHSGEKPFVCNVCGGFSWKRSLTRHHWR.IHSKE KPFVQCCKRGYTSKSDLTVHERIHTGERPYBCQBCGRKPF.SNKS YYSKHLKRHLREKRFCTGSGVEASS
6226	29	266	TKVSELLGGSQRLFFPLWRRRLCRCGLGPRVSPMAGPRVEVDGS IMBGCGQLRVSTGLSWLLSLPWRAQRIRAGRSYA
6227	2581	890	MSASSLLEQRPKGQCNKVQNGSVHQDGLNDDDFEYLSPOARF NNAYTAMSDSYLPSYSPSIGFSYSLGBAAWSTGGDTAMPYLT YQQLSNGEPHFLPDAMFGQPGALGSTPFLGQHGFNFPFGIDFS AWGNSSQGGSTQSSGYSSNYAPSSLGAMIDGQSAPANETL NKAPGMNTIDQGMALKLGSTEVASNVKVVGSVAVSGSITSNI VASNSLPPATIAPPKPAWADIASKPAKQPKLTKNGIAGSSL PPPIIKHMDIGTWDNKGPAKAPSQALVQNIQPTQSGSPQPVG QQANNSPVAQASVQQTQPLPPPPFQPAQLSVQQAQAPTRNW APNRNRSFGHNGVDGNGVQSQAGSGSTPSEPHVLEKLRIN NYPKDFDWNLKHGRVFIISKYSEDDIHSIKYNIWCSTBHGK RLDAAYRSMNGKGPVYLLFSVNGSGHFCGVAEMKSAVDVNTCAG VWSQDKWKGRFDVRWIFVKDVNSQLRHIRLENNENKPVNTSRD TQVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKRQ

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6228	47	1978	GRRCRRRGAVMELAQEARKLGCWAVEEMGVPAARAPESTLRLRL CLGQGADIWAYILQHVHSQRTVKKIRGNLLWYGHQDSQVRRKL ELEPAVTRLRAEIQELDQSLERMDTEAQTAMEQARQHTQDT QRRALLLRAQACAMRRQHTLRDPMQRIQNLRLQDMERKAKV DVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNLILLPQAKRG SLPTPHDDHFGTSYQQWLSVETLLTNHPPGHVLAALHLLAER EABIRSLCSGDLGDTFISRFQAPDQSDSSQTLPSMVHLIQEGW RTVGVLVSQRSTLLKRRQVLTORLQGLVEEVRRVIGSSERQVL ILGLRRCCLTWELKALHDOSQELQDAAGHRQLLLRELQAKQORI LHWRQLVEETQEQVRLIKGNSASKTRLCRSPGEVLALVQRKVV PTFEAVAPQSRRELLRCLEEEVRHLPHILLGLTLRHRPGEIKPLP TVLPSIHLHPASPRGSSFTALSHKGLLPPKASELLLPAAASL RQDLLLLQDQORSLWCWDLLEHMTSLPPGLPTQELLQIQASQEKQ QKENLQALKRLEKLLKQALERIPELQIVGDWWEQPGQAALSE ELCQGLSLPQWRRLRWVQAQALQKLC
6229	1571	560	GPSLLGTGTPNPARTLIQIFLLIGRRITGRMAAVDDQLQFREFG NAATSLTANPDATTVNIEDPGETPKHQPGSPRGSGREDDKLLG NDDSDKTELLAQKKSSPFWTFEYQTFDFDVTYQVDR IKGSL LP I PKGNFVRLYIRSNPDLYGPPNICATLVFAIAISGNLSNELI HLGEKTYHYVPEERKVSIAATIIYAYAWLPLALWGLFMWRNSK VMNIVSYSELEIVCVYGYSLFIYIPTAILMIIPHKAVRWILVMI ALGISGSLAMTFWPAVREDNRRVALATIVTIVLLHMLLSVGCL AYFFDAPEMDHELTATTATPNQTVAAAKSS
6230	1723	600	SKMSGRSGKKKMSKLSRSRAGVIFPVGRMLRMYLKKGTFKYRIS VGAPVYMAAVIEYLAEIYELAGNAARDNKKRIAPRHILLAVA NDEELNQLLKGVTIASGGVLPRIHPELLAKKRGTKGKSETILSP PPEKRGRKATSGKGGKSKAARPTSKSKPKKDSDEKETSNT SEDPGPDGPTILSSKSLVLGQKLSLTQSDISHIGSMRVEGIVHP TTAEIDLKEDIGKALEKAGKEFLETVKELRKSQGPLEVAEAAV SQSSGLAAKPVHCHIPQWGSCKCEQLEETIKNCLSAARDKKL KSAVFPFPPSGRNCFFKQTAQVTLKAISAHFDDSSASSLKNVY FLLFDSSESIGIYVQEMAKLDAK
6231	149	870	LYFSSSTMDRSRLNVLVVSFGFLLLPYAGGLQSLQSSLYSEEG LGVTALESTLYGCMILLSSMFLPPLIERLGCKGTIILSMCGVAF SVGNFFASWYTLIPTSILLGLGAAPLWSAQCTYLTITGNTHAEK AKRGRKDMVNQYFGIFPLIFQSSGVWGNLISLVPFGQTPSQETL PEBQLTSCGASDCIMATTTTNTSTQRPSSQQLVYLLGIYTGSGVL AVLMIAAFLQPIRDVQRESE
6232	3679	1476	FVAGTTMAGFWGTAPLVAAGRGRWPPQQLMLSAALRTLKHVL YYSRQCLMVSRNLGSGVYDPNEKTFDKILVANRGEIACRVIRTC KKMGIKTVAIHSDVDASSVHVMADEAVCVGPAPTSSKSYLNMDA IMEAIKKTAAQAVHPGYGFLSENKEFARCLAAEDVVF IGPDTA IQANGDKIESKLLAKKAEVNTIPGPDGVVDAEAVRIAREIGY PVMIKASAGGGGKGMRIAWDDDEETRDGFRLSSQEAASSFGDDRL LIBKFDNPRHIEIQVLGDKHGNALWLNRECSIQRRNQKVVEE APSIFLDAETRRAMGEQAVALARAVKYSSAGTVEFLVDSKKNFY FLEMNTRLQVEHPVTECITGLDLVQEMIRVAKGYPLRHQADIR INGWAVECRVYAEADPYKSPGLPSIGRLSQYQEPHLPLPGVRVDSG IQPGSDISIYYDPMISKLITYGSDRTEALKRMADALDNYVIRGV THNIALLEVI INSRFVKGDISTKFLSDVYPDGFKGHMLTKSEK NQLLAIASSLFVAFQLRQHFQENSRMPVIKPDIANWELSVKHL DKVHTVVASNNGSVFSVEVDGSKLNVSTWNLASPLLSVSVDTGT QRTVQCLSRREGNMSIQFLGTVYKVNILTRLAABLKNKFMLEKV TETISSVLRSMPGVVVAVSVKPCDAVABQETICVIEAMKMQNS MTAGKTGTVKS VHCQAGDVTGEGDLLVELE
6233	1	2654	HSTRENLNAGNFNFPSEGLHVRSTGPGGSFAKHMAVCVSPKPG

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			LACSRTYFFGATHVPYLGSDSKLPKKTEQIRLLSQIYAAVIEAV LAGIACYAKTSSLTKAKEVAEQTLGSGSDSFELIPFKAALRSKM TFHIHAVNNQGRIVPLDSEDSLSFVKTACMAVVDIPDLLGGNGC LGSVVFSSESLTSQILVKEKDGTVTTETSSVVLTAAPRFCSWL VEDNEVKLSKTHQAVRGDESFLGTLYLTGEGAYLYSSNLQSWP EGNVHFPSSGGLFPHSHCRHGSIIISKDHMSISFYDODSTSTVA ALLIDPKSSLLPFLPVHFGSSNFMIALFPKSKIYQAFYSVF SLWRQODNSGISLKVIOEDGLSVBQKRLHSSAQKLFSAISQFAG EKRSSLKLLSAKLPELDWFLQHFPAISSISQEPVMRTHLPVLLQ AEINTTHRIEADKVIISIVTGLEPGCHASELCAFLVTLHKBCGRW MVYRQIMDSSECFHAAHPQRYLSSALEAQNRSAQSAVIRKKT RLLVVLQGYTDVIDVVALQTHPDSNVKASFTTIGAITACVBPMS CYMEHRFLFPKCLDQCSQGLVSNVVTSTTEQRHPLLVLQSL IRAANPAAAFILAEINGIVTRNEDIELILSENSSPSEMLRSRYL MYPGWYEGKLNAGSVYPLMVQICVWFGPRLKTRFVAKCKAIQS SIKPSPPSGNIYHILGKVKPSDSERTMEVCYNTLANSLSIMPVL EGPTPPPPDSKSVSQSSGQCECYLVFIGCSLKEDSIKDWLRQSA KQKPKRKALKTRGMLTQQEIRSIHVKRHLEPLPAGYFYNGTQFV NFFGDKTDFHPLMDQFMNDYVERANREIRKYNQELQEQEVHDLF ELKP
6234	1731	404	PRVREDMDHKSFGNKGSLVYAGIKSTVKSLSGMVSSRRHNSGL DKQSDIQNLNBERILALQLCGWIKGTDVDVGPFLNSLVQSGEW ERAAVAVALFNLDIRRAIQILNEGASSEKGLNLNVVAMALSGYT DEKNSIWMEMCSLRLQLNNPFLCVMEAFILTSETGSYDGVLYEN KVAVRDRVAPACKFLSDTQLNRYIEKLTNEMKEAGNLEGILLTG LTKDGVLDMESYVDRTGDVQTASYCMQGSPLDVLKDERVQYWI ENYRNLLDANRFWHKRAEFDIHRSLDPSKPLAQVFPVSCNFCG KSTSYSCSAVPHQGRGFSQYGVSGSPKSKVTSCPGCRKPLPRC ALCLINMGTPVSSCPGGTKSDEKVDLSKDKKLAQFNNWFTWCHN CRHGGHAGHMLSWPRDHABCPVSACTCKCMQLDTTGNLVPATV QP
6235	1	571	EKRDRHRLPSWPRAALKVPGRGGRVGTTPELAAGGIMATRNPPQ DYESSDDSYEVLDTLEYARRHQWNRVFGHSSGPMVRKYSVATQ IVMGVGTGWCAGFLPQKVGKLAATAVGGGFLLLQIASHSGYVQI DWKRVEKDVNKAQRQIKGRANKAAPEINNLIREATRPIKQNI SSGFGVGGFLIGLAS
6236	1	703	WDONKGAAGSGSLTLFSLPSARFSAGPPTQSRPTMSNMEKHLF NLKFAAKELSRSAKCKDEKAEKAKIKKAIQKGNMEVARITHAE NAIRQKNQAVNFLRMSARVDAVAARVQTAVTMGKVTKSMAGVVK SMDATLKTMLNLEKISALMDKFEHQFETLDVOTQOMEDTMSSTTT LITPQNVQVMDLLQEMADHAGLDLNMELPQCQTGSVGTSVASABQ DELSQRLARLRDQV
6237	312	720	PTAMAREGIAAGGVMDVNTALQEVLTALIHDLARGIREAAKA LDKRQAHLCVLASNCDEPMYVKLVEALCAEHQINLIKVDNKKL GEWVGLCKIDREGKPRKVVGCSCVVVKDYKESQAKDVIERYPK CKK
6238	2	4666	ERVPTQESVKEINVIKKNPEIVFVADMTKNDAPALVITTQCEI CYKGNLENSMTAAIKDLQVRACPFLPVKRGKITTVLQPCDLF YQTTQKGTDPQVIDMSVKSLTLKVSPIINTMITITSALYTTKE TIPERTASSTAHLWEKKDTKTLKMWFLRESNETEKIAPTTELVP KGEMIKMNIDSIFIVLEAGIGHRTVPMLLAKSRFSGEGKNWSSL INLHCQLELEVHYNYEMFGVWEPLLEPLEIDQTEDFRPWNLGK MKKAKMAIVESDPREBNYKVPYKTVISFHSKDQLNITLSKCG LVMLNNLVKAPTAAATGSSADPVKDLAPFMIILNSLGLTISVSPS DSFVNLNIPMAKSYVLENGESLMDYIRTKDNDFNMTSLSSK LFFILLTPVNHSTADKIPITKVGRLTYTVHRESGVERSIVCQI

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			<p>DTVEGSKKVTIRSPVQIRNHFSVPLSVYEGDTLLGTASPENEFPN IPGYSYRSFIFLKPEDENYQMCBIDFEBIKNKGALLKKKCRS KNPSKESFLINIVPRKDNLTSLSVYSEDGWDLPYIMHLWPPILL RMLLPYKIAYYIEGIEENSVEFTLSEGHSAQICTAQLGKARLHLKL LDYLNHDWKSEYHIKPNQDISFVSFTCVTEMEKTDLDIAVIMT YNTGQTVVAFHSPYMMVNKTGRMLQYKADGIHRKHPNPKPVV FSFQPNHFFNNKVKQLMVTDSLSNQFSIDTVGSHGAVKCKGLK MDYQGVVTIDLSSFNITRIVTFTPFYMIKNKSKYHISVABEGND KHLSDLEBQCIPFNPYASSKLLIQVERSEDPPKRIYFNKQENC ILLRLDNELGGIARVNLAESHVTITFDVHDGAATPLLINHTK NELVQYNQSSLSSEIRDSLPFGKAVFYTWADPVGSRRLKWRCKRS HGEVTVQKDDMMMPIDLGEKTIYLVSFTEGLQRIILFTEDPRVFK VTYSEKAEALAEQELAVALQDVGISLVNNYTKQEVAYIGITSSD VWVETPKPKKARWPKMSVKHTEKLEREFREYTESPSEDKVIQL DTNVFVRLTPTGHNMKILQPHVIALRRNLYLPALKVEYNTSAHQS SFRIQIYRIQIQNHGAVFPFVFPVKPKSVTMDSAPKPFDT WSIVMRSAGHSQISRIKYFKVLQEMDLRLDLGFTYALTDLMTR AEVTEVTEVELPHKDIRAPKKEEYKTASLVDQSQVSLYEYHIS IKHLVSVLSGGRERAKDSKQNGGLIPVHSLNLLKSIGATLTD VQDVVFKLAFFELNYQFHTSDLOQSEVIREYSKQAIKQMYVLL GLDVLGNPPGLIREFSEGVEAFFYRYPQGAIQGPBEPVEGMALG LKALVGGAVGGLAGAASKITGAMAKGVAAMTMDRDYQKKREAM NKQPAQFREGITRGGKGLVSGFVSGITGIVTKPIKGAQKGGAAQ FFKGVGKGLVGAVARPTGGIIDMASSTFQGIKRATETSEVESLR PRPFNEDGVIRPYRLRGTGNQMLQRIQFYREWIMTHSSSSDD DDDDDDDDSDLNH</p>
6239	2108	634	<p>KPGMAGKSSGRPLLLGLLVAVATVHLVICPYTKVERSPNLQA THDLLYHWQDLEQYDHFEPGVVPRTFLGPVVIAVFPSPAVVYL SLLMSKPYSQLIVRGVLGLGVIFGLWTLQKEVRHFGAMVATM PCWVTAMQPHLMFYCTRTLPNVLALPVVLLALAAANLRHEWARFI WLSAPAIIVFRVSLCLPLGLLLLLALGNRKVSVRALRHAVPAG ILCLGLTVAVDSYFNRQLTNPEGKVLWYNTVLNKSNNWGTSPLL WYFYALPRGLGCSLLFIPLGLVDRRTHTPTVLALGFMALYSLL PHKELRFTIYAFMLNITAARGCSYLLNNYKKSNNLYKAGSLV GHLVNAAYSATALLYSHFNYPGGVAMQRLHQLVPPQTDVLLHI DVAAAQGTGVSRLQVNSAWRYDKREDVQPGTGLAYTHILMEAA PGLJALYRUTHRVLASVVGTTGVSLLNLTLQPPFNVLQTKLVLL ERLPRPS</p>
6240	2202	1176	<p>HERGDSLKEPTSIAESSRHPSYRSEPSLEPESFRSPTFGKSFHF DPLSSGSRSSSLKSAQGTGFELGQLQSIRESGTSTSYKSLANQ TRNGSLSYDSILTPSDSPDFESVQAGPEPDPLGYTSPFLSARL AQQREARHPRLVPTGPTTHREPSFVRDNLRSRHIVASLQEREKL LRQSPPLPGREEBPGLDGSGIQSTPGSGHAPRTSSSSDDSKRSP LGKTPILGRPAVPRFGKPDGLRGRGVSPBEGPTAPYLRSMYS SQKAQPGVSETEVALQPLLTPKDEVQLKITYSKSNGQPKSLGS ASPGPGQPLSSPTRGGVKKVSGVGGTTYEISV</p>
6241	3	1341	<p>RNABEKKRLSLQREKILARVSDNRTRALVQALRRTTDPKLCIT RVEELTFHLLRFPPEGKGVAVKERRIPYLLRLRLQIKDETQA EILALIGYVDPVKGRGIRILSIDGGTGRVVALQTLRKLVELTQ KPVHQLFDYICGVSTGAILAFMGLFHMPLDECELYRKLGS FSQNVIVGTVRMSWSHAFYDSQTWENILKDRMGSA MIEARNPTCPKVAAVSTIVNRGITPKAFVFRNYGHFPGINSHYLG GGCQYKMWQAIRASSAAPGYFARYALGNDLHQDGGLLNNPSALAM HECKCLWPDVPLECIVSLGTGRYSDVRNTVYTSLSKTKLSNVINS ATDTEEVHIMLDGLLPPDTYFRFNPVMCENIPLDESRNEKLDQL QLRGLKTYIERNEQMKKVKAKLSQRKTTLQKINDWIKLKTDMYEG LPL</p>

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6242	198	1310	FFSKL QHFLFGARTWSPGAAVCTARRFPGRSLAAPPRAAPRAVEMGE SSEDIDQMFSTLLGEMDLLTQSLGVDTLPPDPNPPRAEPNYSV GPKDLNESLNALEDQDLDAIMADLVADISRAEQRTTQAQKESLQ NQHHSASLQASIFSGAASLGYGTNVAATGISQYEDDLPPPPADP VLDLPLPPPPPEPLSQEEREAQAKADKIKLALKEKLKAKVKLV VKVHMNDNSTKSLMVDERQLARDVLDNLPEKTHCDCNVDWCLYE IYPELQIBRFEDHENVVEVLSDWTRDTENKILFLEKEEKYAVF KNPQNFYLDNRGKKESKETNEKMNKNKESLLEVRLILQSGRKB KDVCSIPKSPASENNGKI
6243	1509	614	RSASRFSGCWSKSDSTCCCPSTCWSRSSASCPRARWPPSSAPAT TSRASSRRLACGPQTRAGAESTRSTAMIRANSAARDTRRATCRSA AGTPSPITMTCLTDVPTGCAAVEPTARLPAAANASTITTGCCPA MGQAGAGPAGRGSEAGGGPGRAHHAHPSPLPREPRVRTGPPAH SPTPGSIDSPELSWGSAGVTQESPLLDVDFLLPRTRAVDPLR RVFFFFYQHLTFFSIQPPPPCHAPHRDPPAGTKRQLILVPLK GPPILAPILSLTPILSRWSCYFFRSRIAQGWHL
6244	2119	1745	FEHAYASQFGTFLGNNESEKCKLQKQKMSLWSWVNPQSELSK FTNPLFRANNLVIWPSVAPQSLPLWEGIFLRWNRSSSKYLDRAYE EMVNIIEYNKELQAKVNILRRQLAELETDGMQESP
6245	81	1148	LSLRNAKYSFPQELISLFSMTLDNDNICKRYIRMITNIVILSLI ICISLAFWIISMTASTYYGNLRPISPRWLFSSVVPVLIVSNGL KKKSLDHSAGLGGVVGPIILTIANFSFFTSLLMFFLSSSKLTW KGEVKKRLDSEYKEGGQRNWWQVFCNGAVPTLALLYMIENGPG ETPVDFSKQYSASWMLCSLLAALACSAGDTWASEVGPVLSKSSP RLITTWKVPVGTNGGVTVVGLVSSILGGTFVGLAYELTQLIFV NDLDTISAPQWPIIAPGGLAGLLGSI VDSVLGATMQYTCLDESTG MVVNSPTNKARHIAGKPI LDNNAVNLFSVLIALLLEPTAANGFW PRG
6246	1177	359	SLWPWILMDDSLMQISLQLLCVYTANFPNGCSSLCWSSCGQHPV QATHRGAVNSIMLCILKIASCOMPLENTTVQQMVPMLLSNLALS HDCGVIQKSNFLQNFSLALPKGGNKHLSNLTILMLKLLNLS SGBDGQOMILRLDGLCLDLITEMSKYTHKSSPLPLLI FHNVCFS PANKPKILANEKVITVLAACLESENQNAQRIGAAALWALTYNQ KAKTALKSPSVKRRVDEAYSLAKTTFPNSANPLNAYYLKCLEL LVQLLNSS
6247	3	1678	NSRVWGPWTEPSAGSLRPMARKQNRNSKELGLVPLTDDTSHAGP PGPRALLECDHLRSGVPGRRRKDWSCSLLVASLAGAFGSSFL YGYNLVSVNAPTPYIKAFYNESWERRHGRPIDPTLTLWSVTV SIFAIGGLVGTILVIMIGKVLGRKHTLLANNGFAISAALLMACS LQAGAFEMLIVGRFIMGIDGGVALSVLPMYLSISPKEIRGSLG QVTAFICIGVFTGQLGLPELLGKRESTNPYLFGVIVVPAVQV LSLPFLPDSPRYLLLEKHNEARAVKAFQTFLGKAHVSQEVVEVL AESRVQRSIRLVSVLELLRAPYVRNQVTVVITMACYQLCGLNA IWFYTNISIFGKAGIPPAKIPYVTLSTGGIETLAAVFSGLVIEHL GRRPELLIGGFGLMGLFFGTLTITLTDHAPWVPYLSIVGILAY IASFCSPGPGGIPILTGEFFQOSQRPAAFI IAGTVNWLNSFAVG LLFPFIQKSLDTYCFVPAFICITGAIYLYFVLPETKNRTYARI SQAFSRKNKAYPPEEKIDSAVTDGKINGRP
6248	56	1773	VPPPRMMAAVPPGLEPWNRRVIRKAGNRSAVTVQNPGAALDLCT AAVIKECHLVLSLKSQTLDAETDVLCAVLYSNENRMGRHKPHL ALKQVBQCLKRLKNMNLGSIQDLFELFSSNENQPLTTKVCVVP SQPVVRLVLMKVLGACKLLRLDCCCKTFLITVKHGLQEFII LNLVVMVGLVSLWLVLYKGVLRLLLYEPLFCILLQEVARIQMP YKDFTFPSDITEPLGQPYFPAFKKMPFAFAAKGINKLLNKL LINEQSPRASETLLGISKKAKQMKINQNVNVDLGQPVKNKRVF

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			<p>KESSSEFDVRAFCNQLKHKATQETSDFDKCSQSRLKTTKYSSQK VIGTPHAKSFVQRFREAESFTQLSEBIQMAVWVCRSKKLKAQAI FLGNKLLKSNRLKHLEAQGTSLPKKLECIKTSICNHLRGSGIK TSKHHLRQRSSQNKFLRRQRKPKQKLOSTLLREIQQFSQGTGRKS ATDTSARWRLSHCTVHRTDLYPNSKQLLNSGVSMPIQTKKMI HENLRGIHENETDSWTVMQINKNSTSGTIKETDDIDDIPALMGV</p>
6249	56	1773	<p>VPPPRMMAAVPPGLEPWNVRVTPKAGNRSVTVQNFGAALDLCT AAVIKECHLVILSLKSQTLDAETDVLCAVLYSNHNRMGHRKPHL ALKQVEQCLKRLKNMNEGSIQDLFELFSSNENQPLTTKVCVVP SQPVVELVLMKVLGACKLLLRLLDCCCTFLTLTKHLGLQEFII LNLVMVGLVSRWLWLYKGVLRLLLYBPLFGLLQEVARIQPMF YFKDFTFPSDITEFLGQPYPEAFKKMPFAFAAGINKLLNKL LINEQSPRASEETLLGISKKAKQMKINQNNVDLGQPVKNKRVF KESSSEFDVRAFCNQLKHKATQETSDFDKCSQSRLKTTKYSSQK VIGTPHAKSFVQRFREAESFTQLSEBIQMAVWVCRSKKLKAQAI FLGNKLLKSNRLKHLEAQGTSLPKKLECIKTSICNHLRGSGIK TSKHHLRQRSSQNKFLRRQRKPKQKLOSTLLREIQQFSQGTGRKS ATDTSARWRLSHCTVHRTDLYPNSKQLLNSGVSMPIQTKKMI HENLRGIHENETDSWTVMQINKNSTSGTIKETDDIDDIPALMGV</p>
6250	232	1306	<p>LAALHIMALPFRKDLKYKOLDEDELGNLSETELKQLETVLDD LDPENALLPAGFRQKNQTSKSTTGPFDRHLLSYLEKEALEHND REDYVPYTGKKKGIPIPKQKPVQTFTEKVSLEPELEALISA SDTELCDLAAILGMHNLITNTKFCNIMGSSNGVDQEHFSNVVKG EKILPVDFPNNPTNVEESLKRTKENDAHLEVNINNIKNIPPI TLKDFAKALETNTHVKCFSLAATRSNDPVATAFAEMLKVNKTLK SLNVESNFTIGVGILALIDALRDNETLAEKIDNQRRQLGTAVE LEMAKMLEBNTNLLKPGYQPTQQGPRTRAANAITKNNDLVKRKR VEGDHQ</p>
6251	62	972	<p>TPGSGPMSAWAAASLSRAAARCLLARGPGVRAAPPDRPRPSHPE PRGCGAAPGRTLHFTAAVPAHNNKWSKVRHIKGPDKDVERSIF KLCLNIRLAVKEGGPNPEHNSNLANILEVCRSKHMPKSTIETAL KMEKSKDTYLLYEGRGPGGSSLLIEALSNSHKKQADIRHILNK NGGVMVAGARHSFDRKGVIVVEVDREKKAVALNERALEMAIEAG AEDVKSTEDDEERNVFKPICDASSLHQVRKKLDSGLCSVSCAL EFIPNSKVQLAEPDLEQAHLIQALESNHEVDVHYVDNIE</p>
6252	27	1897	<p>EEFCTWIAVRVGEMETAPKPGKDVPPKKDKLQTKRKKPRRYWEE ETVPTTAGASPGPPRNKNRELRPQRPKNAYILKKSRIKSKPQV PKKPREWKNPESQRLSGAQDPPFGPAPVPVVEVQKFCRIDKSR KLPHSKAKTRSRLEVAAREEBETSIIKAARSELLAEEPGFLEGE DGEDTAKICQADIVEAVDIASAAGHFDLNLRLQFGPYRLNYSRTG RHLAFGGRRGHVAALDWVTCKLMCEINVMEAVRDIRFLHSEALL AVAQNRNLHIYDNQGIELHCIRRCRDRVTRLEFLPFHLLATASE TGFLTYLDVSVGKIYAALNARAGRLDVMSONPYNVTHLGHNSG TVSLNSPAMKKPLAKILLCHRGVRAVAVDSTGYMATSGLDHQL KIFDLRGTYQPLSTRTLPHGAGHLAPFSQRGLLVAGMGDVVNIWA GQKASPPSLEQPYLTHRLSGPVHGLQFCPFEDVLGVGHTGGIT SMLVPGAGEPNFDGLESNPYRSRKQREQWEVKALLEKVPARLIC LDPRALAEVDVISLEQGGKEQIERLGYDPAKAPFPQPKPKQKGR SSTASLVKRKRKVMDEBHRDKVRQSLQQQHHKRAKAKPTGARPS ALDRFVR</p>
6253	27	1897	<p>EEFCTWIAVRVGEMETAPKPGKDVPPKKDKLQTKRKKPRRYWEE ETVPTTAGASPGPPRNKNRELRPQRPKNAYILKKSRIKSKPQV PKKPREWKNPESQRLSGAQDPPFGPAPVPVVEVQKFCRIDKSR KLPHSKAKTRSRLEVAAREEBETSIIKAARSELLAEEPGFLEGE DGEDTAKICQADIVEAVDIASAAGHFDLNLRLQFGPYRLNYSRTG RHLAFGGRRGHVAALDWVTCKLMCEINVMEAVRDIRFLHSEALL</p>

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			AVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFLATASE TGFLTYLDVSVGKIIVAAALNARAGRLDVMSQNPYNAVILGHNSG TVSLWSPAMKEPLAKILCHRGGVRAVAVDSTGYMATSGLDHQL KIFDLRGTYQPLSTRTLPHGAGHLAFSGRGLLVAGMGDVVNIWA GQKASPPSLEQPYLTHRLSGPVHGLQFCPFEDVLGVGHTGGIT SMLVPGAGEPNFDGLESNPYRSRKQRBWEVKALLEKVPALIC LDPRALAEVDVISLEQGGKEQIERLGYPQAKAFQPKPKQKGR SSTASLVKRKRKVMDBEHRDKVRQSLQQQHHKEAKAKPTGARPS ALDRFVR
6254	155	1139	HALGRHGGSGOELSAACGCCFALRLRAPGSGRPALAPGAAAFAGL GGAPRFPFPGSAGRTMLLKEYRICMPLTVDEYKIGOLYMISKH SHEQSDRGEGVEVVQNEPFPDPHNGNQPTKRVYVLSKLPSWA RAVVPKIFYVTEKAWNYYPYTITEYTCSEFLPKFSIHETKYEDN KGSNDTIFDNEAKDVEREVCFIDIADEIPERYKSESDPKHFK SEKTRGQLREGWRDSDHOPIMCSYKLVTVKFEVWGLQTRVEQFV HXVVRDILLIGHRQJAFWVDEWYDMTMDVREYKMMHEQTNIK VCNQHSSPVDDIESHAQTST
6255	1	1444	PTPQQQLVSLATVIFVASQKALSVEKAVIKQQLBSVSNWGT VYRIARQASRMGNHDMAKELYQSLLTQVASKHFFWLNLSKEFS HAEQCLTGLQEENYSSALSCLAESEKFPYHKLASLTAASTPLNP LSFQCEFFVKLRIDLQAFSQLICNLSKTSPPPAIATTIAMTL GNDLQRCGRISNQMKQSMEEFRSLASRYGDLQASFDADSATLR NVELQQQSCILLISHAIEALILDPESASFQYEGSTGTAHADSEYE RRMSVYNHVLREVESENGKYTFVSYMTACLCAIITALLKVPL SFQRYFFQKLQSTSIKLALSPSPRNPAEPIAVQNNQQLALKVEG VVQHGSKPGLFRKIQSVCLNVSTLQSKSGQDYKIPIDNMTNEM BQREVEPHNDYFSTQPLNPAIIGTHINIVESSVKDANGIVWKTG PRTTIFVKSLEDYPSQIRLQQQQAQQLQQQQQQRNAYTRF
6256	1	1542	CRGAGAEPAANPRSPRLVPSLESTSTSVPPAPGTMATDSWALA VDEQEAASLSNLHLKERRIKPDTNGAVVKTANAEKTDDEEK EDRAAQSLNKLIRSNLVDNTNQVEVLQRPNSPLYSVKSFEEL RLKPQLLQGVYAMCFNRPSPKIQENALPMLAEPPONLIAQSOSG TGKTAAFVLAMLSQVEPANKYPQCLCLSPYELALQTKVIEQM GKFYPKLAYAVRGKLERGQKISEQIVIGTPTGLDWCSEKLE FIDPKKIKVFVLDEADVMIAATQGHQDQSTRIQRMLPRNCQMLLP SATFEDSVWVFAQKVVPDPNVIKLRBEETLDTIKQYYVLCSSR DEKFOALCNLYGATTIAQAMIFCHTRKTASWLAELSKEGHQVA LLSGEMMVQRAAVIERPREGKEKVLVTNVLCARGIDVEQVSVV INFEDLPVDKGNPDNETYLHRIGRTRFGKRGGLAVNMVDSKHSN NITLNRIQEHFNKKIERLDTDDLDEIEKIAN
6257	210	615	AFIPAMARLIQKKLQGEVEKYQQLQKDLKSMGSRQKLEAQLTE NNIVKEELALLDGSNVVFKLLGPVLVKQELGEARATVGKRLDYI TAEIKRYESQLRDLERQSEQQRETLAQIQEFPQRAQAAGAGAP KA
6258	210	615	AFIPAMAEIQQKKLQGEVEKYQQLQKDLKSMGSRQKLEAQITE NNIVKEELALLDGSNVVFKLLGPVLVKQELGEARATVGKRLDYI TAEIKRYESQLRDLERQSEQQRETLAQIQEFPQRAQAAGAGAP KA
6259	2	1540	ILEKGFPSCQHPERKWKVDVLESSQENEDDHFWEILFHNNKTV SVENGDRGSKTFNLGTDVPSLRNYPYKICDSCMNLKNISGLII SKNCSSKPKPDEFNVEKLLLDIRHEKIPIGESYKYDQKRNAI NYHQDLSQSPFGQSFYSKNGQGFHDEAAFFTNKRSQIGETVCK YNECGRTFIESLKLNISQRPHLEMBPYGCSI CGKSFCMNLRFHG QRALTQDNPEYNEYGEIFCDNSAFIIHQGAYTRKILREYKVS KTWEKSALLKHQIVHMGCKSYDYNENGSNPSKKSHTQLRRAHT GEKTFECGECGKTFWEKSNLTQHQRTHTGKPYECTECGKAFQ

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			KPHLTNHQRTHTGKPYECKQCGKTPCVKSNLTEHQRTHTGKPYECNACGKSFCHRSALTVHQRTHTGKPPICNECGKSFVCVKSNIIVHQRTHTGKPYKCECGKTFCEKSALTHTQRTHTGKPYECNACGKTSQRSVLTQHQRIRTRVKALSTS
6260	2081	1436	GTGPEIHACAHASARAPGSRAMALRELKVCLLGDTGVGKSSIVWRFVDSDFPNINPTIGASPMKTIVQYQNELHKKFLIWDTAGQERF RALAPMYRGSAAAIIVYDITKKEFTSTLKNWVKELRQHGGPPNI VVAIAGNKCIDLIVREVMDARDYADSIHAI FVETSAKVAINI NRLFIEISRRIPSTDANLPSGGKGFKLRRQPSSEPKRSCC
6261	3	1188	FWYRLPGTRSRWRPRRGSWAASLVPRGSPFALVTSPCPDPLR SPACEPCRPDFAPRPALLLRSGPRSAVATGKPAKLGQPGWPWG MAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLAS NVQNRNLVQHDLVAKQLQEEELKQAQQLKRYKDLQOQDCETIA QBIQEKLAIEAERRRIQEKKDEDIARLLQEKELQEEKKKKKHFP EFPATRAYADSYYYEDGGMKPRVMKEAVSTPSRMAHRDQEWYDA EIAKQLQERRELLATQVDMRAAQVAQDEEIARLLMABEEKKAYKKA KEREKSSLDKRRKQDPWKPPTAKAANSKSKESDEPHHSKNERPA RPPPPIMTDGEGDADYTHPTNQSSSTRHFSKSES SHKGFHYKH
6262	2	1759	PECHSGLCSVHRPGKVPQARMISGLVGLQORDEPAGHRLSQEKIL GSTRLVSGGLEALRSEHQAVLQSI.SQTIECLQGGHHEGLVHEK ARQLRRSMNIEGLSEAVMLALASHLSTVESEKQKLRQVRR LCQENQWLRDELQGTQQLQRSEQAVAQLEEEKHLEFLGLQLRQ YDEDCHTSBEKEGDATKDSLDLFPNEEBEDPSNGLSRGQGATA AQQGGYEIPARLRLTHNLVLIQVAAQGRYEVAVPLCKQALEDLER TSGRGHPDVATMLNIALVYRDQNKYKAAHLNDALSTRESTL GPDHPAVAATLNNLAVLYGKRGKYKAEPLCQRALETREKVLGT NHPDVAKQLNNLALLCQNOGKYEAVERYQRALAIYEGQLGPDN PNVARTKNNLASCYLKQKGYAABTLYKEILTRAHVQEFSGVDD DHKPIWMHAERREEMSKSRHHEGGTPYARYGGWYKACKVSSPTV NTTLRNLGALYRRQGLKAAETLEECALRSRRQGTDPISQTKVA ELLGESDGRRTSQEGPGDSVKFEGGEDASVAVENSGDGSOTLQR SCSLGKIRDVLRR
6263	1	2408	RELDLSADLPERIKPPYANGLSTSHLRSSSVEDVKLIISEGRPT IEVRRCEMPSVICKHTKQFOTISBESNQGSLLTVPGDTSFSPKP EVFSNVPERDLSNVSNHSSFATSPTGASNSKYVSADRNLIKNT APVNTVMDSVPVHLEPSSQVGVIONKSWEMPVDRLETLSTRDFIC PNSNIPDQESSLQSFCSNENKVLKENADFLSLRQTELPGNSCAQ DPASFMPQPQPCSFPSQSLSDAESISKHMSLSYVANQEPGILQQ KNAVQI ISSALDTDNESKTDENTFVLGDVQKTDAPVVPVSDST IQEASPNFEKAYTLPVLPSEKDFNGSDASTQLNTHYAFSKLTYK SSSGHEVENSTTDQVISHEKENKLESVLVTHLSRCDSDLCMN AGMPKGNLNEQDPKHCPESEKCLLSIEDRESQQSILSSLENHSQ QSTQPEMHKYGQLVKVLEENAEADKTEHQIPQRMTRNKANTMA NQSKQILASCTLLSEKDESSSPRGRIRLTEDDDPQIHHPRKRK VSRVPQPVQVSPSILQAKEKTQQSLAAIVDSLKLDEIQPYSSER ANPYPEYLHIRKKIEEKRLKLCVPIQAPQYDEYVTFNGSYLL DGNPLSKICIPTITPPPSLSDPLKELFRQEQEVVRMKLRQHSIE REKLIVSNEQEVLRVHYAARTLANQTLFPFSACTVLLDAEVYN PLDSQSDDSKTSVRDRFNARQFMSWLQDVDDKFDKLTCLLMRQ QHEAALNAVQRLQWQLKLQELDPATYKISISYKIQEYVPLVD VNDDFELTPI
6264	143	1960	KHQENNALDMAPEIHTGPMCLIENTNGELVANPEALKILSAI TQPVVVVAIVGLYRTGKSYLMNKLAKNGKPSLGSSTVKSHTRGY WMNCVPHPKPEHTLVLLDTEGLGDVKKGDNDQNSWIPTLAVLL SSTLVYNSMGTINQAMQDLYYVTELTHIRSKSSPDENENRDS ADFVSFFPDPFVMTLRDFSLDLEADGQPLTPDEYLEYSLKLTQGT

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			SQKDKNENLPRLCIRKFFPKKKCFVFDLPPIHRRKLAQLEKLQDE ELDPEFVQVADFCSYIFSNSTKTLGGIKVNGPRLESVLTY INAI SRGDLPCMENAVLALAQIENSAAVQKALAHYDQMGQKQV LPAETLQELDLHRVSEEREATEVYMKNSTFKDNDHLPQKKLAAQL DKKRD DFCQNQREASSDRCSALLQVIFSPLEEEVKAGIYSKPGG YCLFIQKLQDLKKYYEPRKGIQAEELQTYLKSSESVDAIL QTDQILTEKEKEIEVECVKASQAASAKMVEEMQIKYQMMEEK EKSQYQEHVQKLTCKMERERAAQLLEBQKTLTSLQEQARVLKER CQGESTQLQNEIQKLQKTLKKKTKRYMSHKLCI
6265	143	1960	KHRQENNALDPAETIHTGPMCLIENTNGELVANPEALKILSAI TQPVVVAIVGLYRTGKSYLMNKLAKNGKPSLGSTVKSHTKGI WMWCVPHPKPEHTLVLLDTEGLGDVKKGDNDNDSWIFLAVLL SSTLVYNSMGTINQAMQDLYYVTELTHRIKSKSPDENENEDS ADFVSFFPDPVWTLRDFSLDLEADGQPLTPDEYLEYSLKLQGT SQKDKNENLPRLCIRKFFPKKKCFVFDLPPIHRRKLAQLEKLQDE ELDPEFVQVADFCSYIFSNSTKTLGGIKVNGPRLESVLTY INAI SRGDLPCMENAVLALAQIENSAAVQKALAHYDQMGQKQV LPAETLQELDLHRVSEEREATEVYMKNSTFKDNDHLPQKKLAAQL DKKRD DFCQNQREASSDRCSALLQVIFSPLEEEVKAGIYSKPGG YCLFIQKLQDLKKYYEPRKGIQAEELQTYLKSSESVDAIL QTDQILTEKEKEIEVECVKASQAASAKMVEEMQIKYQMMEEK EKSQYQEHVQKLTCKMERERAAQLLEBQKTLTSLQEQARVLKER CQGESTQLQNEIQKLQKTLKKKTKRYMSHKLCI
6266	276	1421	GSHQKQMLVPCFLYSLQNRKPSLYGSLTCQIGLDGIEVTASE GPTVNEINKSIHISCPKENASSKFLAPYTTFSRIHTKSIICLD ISSRGGLGVSSSTDTGTMKIWAQANGELRRVLEGHVFDVNCRRFF PSGLVVLSSGMDAQLKIWSAEDASCVVTFKGHKGGLDITAVDR GRNVVSASRDGTARLWDCCRSACLGVLDACGSSINGVAVGAADN SINLGSPBQMPSEREVGTEAKMILLAREDKKLQCLGLQSRQLVF LFIGSDAFNCTFLSGFLLLAGTQDGNLYQLDVRSPRAPVQVIH RSGAPVLSLSVRDGFASQGDGSCFIVQDLDYVTELTGADCD PVYKVATWEKQIYTCRCDGLVRRYQLSDL
6267	3	622	LGMMKKNNSAKRGPQDGNQPPAPPEKVGWVRKFCCKGIFREIWK NRYVVLKGDQLYISEKEVKDEKNIQEVFDLSDYKCEBLRKS RSKKNHSTFTLAHSKQPGNTAPNLIPLAVSPKEKESWINALNSA ITRAKNRILDEVIVEEDSYLAHPTDRAKIQHSRRPPTRGHMA VASTSTSDGMLTDLIQEEDFSPKEPTSLC
6268	160	1368	HRELQNLPAGLSSALIDNPLTLLSIDTYVMLQEPVTFQDVAV DFSREWGLGPTQRTFYRDVMLETFGHLVSVGWETTLNKELA PNSDIPPEEPAPSLKVQESSRDICALSSTLEDTLQGGVQEVQDTV LKQMSAQEKDLQPKKHFDNRESQANSALDNTQVSLQKIDNPE SQANSALDNTQVLLHKIPPRKRLRKRDSQVKSMMKHSRVKIHQ KSCERQKAKEGNGCRKTFPSRSTQITFIRIHKGSQVCRCECGK IFRNPRYFSVHKIHTGERPYVCQDCGKGFVQSSSLTQHQRVHS GERPPFCQECGRTFNDRSAISQHLRTHTGAKPYKQDCGKAFRQ SSHILIRHQRTHTGERPYACNCKGKAPTQSSHLIGHQRTHNRTKR KKKQPTS
6269	2886	1449	HASAPTRRNMAASPLRDCHAWKDARLELSTTSNEACKLFDATL TQYVKWINDKSLGGIEGCLSKLKAADPTFVMGHAMATGLVLIGT GSSVKLDKELDLAVKTMVEISRTQPLTRREQLHVSAVETFANGN FPKACELWEQILQDHPDMLALKFSDHAYFLGYQEQRMDSVAR IYPPWTPDIPLSYVKGISYFGLMETNFYDQAEKLAKRALSINP TDANSVHTVAHIHEMKAEIKDGLFEMQHSSETLWKDSMLACHNY WHWALYLIEKGEYEAALTIDYTHILPSLQANDAMLDVVDSCSML YRLQMEGVSVGQWQDVLVPARKHSRDIHLLFNDAHFIMASLGA HDPQTQBELLTLRDASESPGNCQHLLARDVGLPLCQALVEAE

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			DGNPDRVLELLLPPIRYRIVQLGGSNAQDVFNQLLIHAALNCTS SVHKNVARSLLMERDALKPNSPLTERLIRKAATVHLMQ
6270	23	2086	SVTVTLGSEDCRPPTVHLEMEQEPQNGEPAETIKITREAYKKA FLFVNKGLNTDELGQKEEAKNYKQGIGHLRGISISSKESEHT GPCWESARQMCKMKETLQNVTRLEILEKGLATSLQNDLQRPV KLYPEFPKDMCEKLEPPQSFSSAPQHAENVNGNTSTPSAGAVAA PASLSLPSQSCPAEAPPAYTPQAEGHYTVSYGTDSGEFSSVGE ERYRHSQPPPLETLGLDADELILIPNGVQIFPVNPAGEVSA PS YPGYLRIVRFLDNLSDTVLNRPPGFLQVCDWLYPLVPDRSPVLK CTAGAYMFPDTMLQAAGCFVGVLSSELPEDDRELFEEDLLRQMS DLRIQANWNRAREENEFQIPGRTRPSSDQLKEASGTDVQKLDQG NKDVRHKGKRGKRAKDTSSSEVNLSHIVPCBPVPEEKPKELPEW SEKVAHNILSGASWVSWGLVKGAEITGKAIQKGASKLRERTQPE EKPVEVSPAVTKGLYIAKQATGGAAKVSQFLVDGVCTVANCVGK ELAPHVKHKGSKLVPESLKDKDKGKSLDGMVVAASSVQGFST VWQGLECAAKCTVNNVSAETVQTVRYKYGYNAGEATHHAVD SAV NVGVTAYNINNIGIKAMVKKATATQYGTHTLLEDYQIVDNSQRENQ BGAANVNRGEKDEQTEKVKRAKKDK
6271	32	1058	GCGVKTAGMVGREKELSIHPVPGSCRLVEEVNIPNRRLVTGA TGLLGRAVHKBFQNNWHAVGCGFRRARPKFEQVNLDSNAVHH I IHDQFPHVIVHCAAERRPDVVENQPDAAASQLNVDASGNLAKA AAVGAFLIYISSDYVFDGNTPPYREEDIPAPLNLGYKTKLDGKK AVLENNLGAVALRIPILYGEVEKLEESAVTVMFDKVQFSSNSAN MDHWQORFPTHVKDVATVCRQLAEKRMIDPSIKGTFFHWSGNEOM TKYEMACAIADAFNLPSSHLRPITDSPVLGAQRPRNAQLDCSKL ETLGIGQRTPPRIGIKESLWFFLIDKRWRTVFI
6272	1136	528	GAVMEDAAAPGRTEGVLERQGAFAAGQGGALVELTPTPGGLAL VSPYHTRAGDPLDLVALAEQVQKADEFIRANATNKLTVIAEQI QHLQEQARKVLEDAHRDANLHHVACNIVKKPGNIYYLYKRESGQ QYPSIISPKEWGTSCPHDFLAGYKLDHLSWTPYEDIERQDAKI SMMDTLLSQSVALLPCTEPNFGGLTH
6273	256	843	SCPRVSECRSLGCGVMSLPLNCSPDHIRRGSCWGRPQDLKIA SAAWNKSCHPGAGAAARQHARTLWYDRPRYVFMFPCVEDSTDV HVLIEDHRIVPCKNADGVELYNEIEFYAKVNSKDSQDKRSSRS ITCFVRKWKKEVANPRLTKEDIKPVWLSVDFDNWRDNEGDDEME LAHVEHYAEVRDNTYCVLPT
6274	56	1142	AAAAAAGGGGAGAAARSLSRFRGCLAGALLGDCVGSFYEAHDT VDLTSLRHVQSLEPDPGTPGSETEALYTTDDTAMARALVQSL LAKEAFDEVDMAHRFAQYKDKDPDRGYGAGVTVFKKLINPKCR DVFEPARAQFNGKSGSYNGGAMRVAGISLAYSSVDVQKFARLS AQLTHASSLGYNCAILQALAVHLALQGESSEKHFLLKQLLGHMED LBGDAQSVLDARELGMEERPYSRLKKIGELLDQASVTRREVVS ELGNGIAAFESVPTAIYCFLRCMEPDPIPSAFNSLQRTLIYSI SLGGDTDTIATMAGALAGAYYGMDQVPESWQQSCGEYESTDILA QSLHVFQKS
6275	20	565	SRRGARCLARGSRPVRPAKTMFNVKTMVGGQLKNLTGSLG GGEDKGDGDKSAEAQMSREEYEYQQLVKEEKMERDAQFTQR KAERATLRSHFRDKYRLPKNETDESQIQMAGGDELPRELAKMI EEDTBEEERKASVLGQLASLPGLNLGSLKDKAQATLGDLKQSAE KCHVM
6276	797	97	TLLEPLPLPOTEGMILLNTGLEGTVAENPVPIVHTPSGNITLLE SCLQQLATHPGHWGHIQLAEPALRPSLALLARLSSSLGLLHWP VWVCAKISHGSPFVPGHVAGRELLTAVAEVFPHTVAPGWPREV LGSGYREQLLTDMLELQGLWQPVSPQMAMLLGHSTAGAIGRL LASSPRATVTEHNPAAGDYASVRTALLAARAVDRTVYVRLPO GYHKDLLAHVGRN

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6277	4600	2744	MAFRTEMGLYYSYFKTIVEAPSFNLGVMMIMNDKLTETPLVINT LKRPNLYPEVILASWYRIYTKIMDLIGIQTKICWTVTIGEGLS TBSCEGLDPAFCFYVAVIFILNGLMMALFFIYGTLYSGSLGG VTVLCPFNNHGECTVMWTPPLRESFSYDFLVLMQLLVTHILRA TKLYRGSLLALCISNVFFMLPWQPAQFVLLTQIASLFAVYVVG IDICKLRKIYIHMISLALCFVLMFGNSMLTSTYASSLVIIWG ILAMKPHFLKINVSSELGLWVIQGCFLPFTVILKYLTSKIPGIA NDAHIGNLLTSKFPSTYKDFDFTLLYCAAEFDFMEKSTPLRYTK LLLPVVLVGFVAIVRKIISDMNGVLAKQTHVRKHQPDHGLVY HALQLLAYTALGILIMRLKLZLTPHMCVMASLICSRLPGWLF KVHPGAIVFAILAAISQGSANLQTNWVGEFSNLQERLIEW IKYSTKPDVAFAGAMPTMASVKLSALRPVNHPHYEDAGLRART KIVYSMYSRKAAREVKRELIKLVNYYILBESWCVRRSKPGCSM PRIWDVBDPANAGKTPLCNLLVKDSKPHFTTVFQNSVYKVLV KR
6278	3	823	ILFRLVLLSLVYLLNSVATERKPAEVLIVEGQQYAVVGTVLLL IRILEYCGQVDNIPSVTTMLRLSLLKYFNSRSQQLVLGAG ALQVVGKLTITTKNLALSSRCQLIVHYIPVIRAHFEARLPKQ YSMLRHFDHITKDYHDHARISAKLVAIMDSLPDKLLSKYEVKA PVPSACFRNICKQMTKMEATFDLLPEEQTQMLFLRINASYKLH LKKQLSHLVINDGGPQNLVLTADVAFTGNLQALGKGLDLDIN MARINEQXR
6279	127	1687	GGAMASDGARKQFWKRSNSKLPFSIQHYVGAQHPPFDPLHGT LRSTAKMPTTPVAKRVSTPQEFESNTSDANDAGEDDDELLAMA AESLNSVVMETANRVLNRHSQRQGRPTLQEGPGLQKPRPEAE PPSPFSGDLRLVKSVSSEHTSCPARSASDAAPLQSRQSLPHSAT VTLGSTSDPSTLSSALSREASRLDKFKQLLAGPNTDLSELRR LSWSGIPKVPKPMTWKLSGYLPANVDRRPATLQKQKEYFAPI EHYYDSRNDVHQDTYRQIHIDIPRMSPEALILQPKVTEIFER LFIWAIRHPASGVYQGINDLVTPFPVVPICEYLEAEVDVTVDS GVPAEVLNTEADTYWCMKSLLDGIQDNYTFAQPGIQMKVKMLE BLVSRIDEQVHRHLDQHEVRYLQFAFRWMNLLMREVPRLCTIR LWDTYQSEPDGFSHFHYVCAAPLVRWRKRLLEKDPQELLLFL QNLPTAHWDDIDISLLAEAYRLKFAFADAPNHYYK
6280	857	2515	ECCDQKMGSRNSSAGSGSDPSEGLPRRGAGLRSEEEBDE DVDLAQVLAYLLRRGQVRLVQCGGAANLQFIQALLDSEENDRA WDGRLGDRYNPPVDATPDTRLEFNEIKTQVELATGQLGLRRAA QKHSFPRMLHQRERGLCHRGFSFLGEQSRVISHFLPNLDGFTDS YSQKAPCGIYSKDGQIFMSACQDQTIIRLYDCRYGRFRKFKS RDVGWSVLDAFTPDGNHFLYSSWSYIHCNIYEGDTHALT LRPDERRFAVFSIAVSSDGREVLGGANDGCLYVFDREQNRRT IESHEDDVNAVAFADISSQILFSGGDDAICKVWDRRTMRDDPK PVGALAGHQDGIITFIDSKGDARYLISNSKDTIKLWDIRRFSSR EGMEASRQAATQONWYRWQVPPKAWRKLKLPDSSIMTYRGH GVLHTLIRCRFSPHSTGQQFTYSGCSTGKVVVYDLSGHIVKK LTHHKACVRDVSWHFPFEKIVSSSWDGNLRLWQYRQAEYFQDDM PESEECASAPAPVQSSSTPFSPPQ
6281	857	2515	ECCDQKMGSRNSSAGSGSDPSEGLPRRGAGLRSEEEBDE DVDLAQVLAYLLRRGQVRLVQCGGAANLQFIQALLDSEENDRA WDGRLGDRYNPPVDATPDTRLEFNEIKTQVELATGQLGLRRAA QKHSFPRMLHQRERGLCHRGFSFLGEQSRVISHFLPNLDGFTDS YSQKAPCGIYSKDGQIFMSACQDQTIIRLYDCRYGRFRKFKS RDVGWSVLDAFTPDGNHFLYSSWSYIHCNIYEGDTHALT LRPDERRFAVFSIAVSSDGREVLGGANDGCLYVFDREQNRRT IESHEDDVNAVAFADISSQILFSGGDDAICKVWDRRTMRDDPK PVGALAGHQDGIITFIDSKGDARYLISNSKDTIKLWDIRRFSSR

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			EGMEASRQAATQONWDYRWQQVPPKAWRKLKLPDSSSLMTYRGH GVLHTLIRCRFSPHSTGQQFIYSGCSTGKVVVYDLLSGHIVKK LTNHKACVRDVSHPPEKKIVSSSWDGNLRLWQYRQAEYFQDDM PEEECASAPAPVQSSSTPFPSSPQ
6282	125	906	RMAACRALKAVLVDLSGTLHIEDAAVPGAQKALKRLRGASVITR FVTNTTKESKQDLERLRKLBFDISEDEIFTSLTAAASLLERKQ VRPMLLVDDRALPDFKGIQTSDPNAVVMGLAPEHFHYQLNQAF RLLLDGAFLIAIHKARYYKRKDGALGPGPPVTALAYATDTKAT VVGKPEKTFLEALRGTCCKPERAVMIGDDCRDDVGGAGQDVGM GILVKTKGYRASDEEKINPPPYLTCEFPFAVDHILQHL
6283	140	1043	LSLPGIHVMNPFWSMSTSSVRKRSEGEKTLTGDVKTSPPRAP KKQLPSIPKNAIPITKPTSPAPAAQSTNGTHASYGFFYLEYSL ABPTLVVKQKRLPGVVYQPSYRSALMWFVIFIRHGLYQDGVFKF TVYIPDNYPDGDGCPRLVFDIPVFHPLVDPTSGELDVKRAFAKWR RNHNHIIQVLMYARRVYKIDTASPLNPRAAVLYEKDIQLFKSK VVDVSVKCTARLPDQPKIRDYATSFSPWNPVSHDEAREKMLTQ KKKPEEQHNKSVHAGLSWVKPGSVQPPFSKEEKTIVAT
6284	1	2879	RSVIPGSTISSRNPGLSRPRFMAHEWDFQREELIGQISDIRV QNLQVERENVQKRTFTRWNLHLBKCNPPLEVKDLFVDIODGKI LMALLEVLSGRNLHLEYKSSSHRIFRLNNAKAKFLBDSNVKL VSIDAARLADGNPSLVGLIWNILFFQIKELTGNLSRNSPSS LAPGSGGTDSDSSFPPTTAERSVAISVKDQKAKALLAWVQR KTRKYGVAVQDFAGSWRSGIAFLAVIKADPSLVDMKQALENST RENLEKAPSTIAQDALHPIRLLEPEDIMVDTPEQSIMTYVAQFL ERFPELRAEDIFDSDKEVPIESTFVRIKETPSBQESKVFVLTEN CERTYTVNHETSHPPSKVFCVCKPESMKERLDGVSSHALSDS STEFMQIIDIQVLGGPGKTSIDISEPSPSSILSRKENGSRNS LPIKKTVEADTYKDPFCSKNLSLCFEGSPRVAKESLRQDGHV LAVEVAEEKEQKQESSKIPSSSDKVAGDIFLVEGTNNNSQSS CNGALESTAREDESHSLSPGKNTVMADSFQIKVNLMTVZALE EGDYFEAIPLKASKFNSDLIDFASTSQAFNKVPSPHETKPDEDA KAFENHARKLCYRSIKSAHKKKDSPEQVQMDKHEPHQDSGEEA EGCPSAPEETPVDKKPEVHEKAKRKSTRPHYEEGEDDDLQGVG EELSSSPSSCVSLLETLSHSEEGLDPKSPPLSKVSVIPHDLP YPHYEVPLAAVLEAYVEDPEDLKNEEMDLEBPEGYMPDLSRE ERADGSQSSSSSVPGESLPSASDQVLYLSRGGVGTTPASBPAP LAPHEDHQRETENDPMDSHQSQESPNLENIANPLEENVTKES ISSKKKEKRKHVDHVESLFPAGSVQSSDDEEDSSDYSIPSR TSHSDSSIYLRHRTHRSSSDHFLCSVEERSRSG
6285	2157	1331	SKTENLLEMMWFQGLSFLPSALVTWTSAAFIPIFYITAVTLHH IDPALPIYISDTGTVAPEKCLFGAMLNIAVLCIATYVRYKQVH ALSPEENVITKLNKAGLVGLILSCLGLSIVANPQKTTLFAHVS GAVLTFMGSLYMFVQITLSYQMPKIHGKQVFWIRLLLVITWCG VSALSMITCSSLHSGNFGTDLEQKLEHNPEDKGYVLHMITTAA EWSMSFSFFGFLTYIRDFOKISLRVBANLHGLTLYDTAPCPIN NERTRLLSRDI
6286	1619	276	KAGASCCGSANPYVSVGKSCVLLAMAQLQTRFYTDNKKYAVDDV PFSIPAASEIADLSNIINKLLKDKNEFHKHVEFDPLIKGQFLRM PLDKHMEMENISSHEVVEIEYVVKYTAPOPEQCMFHDDWISSIK GABEWILTGSYDKTSRINSLEBKSIMTIVGHTDVVKDVAWVKKD SLSCLLLSASMDQTILLWENNVRNKVKALHCCRGHAGSVDSIA VDGSGTKFCGSGWDKMLKIWSTVPTDEDEMEESTNRPRKKQKT EQLGLTTPITVTLSGHMEAVSSVLWSDABEICSASWDHTIRVWD VESGSLKSTLTGNKVFNCISYSPCKRLASGSTDRHRLWDPRT KDGLSVLSLTSHTGWVTSVKWSPTHEQQLISGSLDNIVKLWDT RSCAPLYDLAAHEDKVLSDWDTDTGLLLSGGADNKLYSRYSP

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6287	278	1482	TTSHVGA MQFFNFQIGLRSTSGKEKYSGDAGFLGDALQLFLQCLALDEDF APAKLQVQKILCDLLPENLKEGLKRSSWSLPTQNRFPDFHS VMEBSQSLNEPSPKQSEIPEVTSEPVKGSINRAQSAQINSTE MPAREDCILKRVSSEFVLSVQKGVLLKRLSLLEQDVI VNEGR NKLKKQGETPNEVCMSFLAYGDIPEELIDVSDFECSLCMLFFB PVTTPCGHSFCKNCLERCLDHAPYCPLCKESLKBYLADRRYCVT QLLEELIVKYLPELSEKKIYDEBTAELSHLTKNVPIFVCTMA YPTVPCPLHVFEPYRLMIRRSIQGTGKQFGMCVSDTONSFADY GCMLQIRNVHFLPDGRSVVDVTGGRFRVLKRGMDGYCTADIE VLEDV
6288	1	743	VTLYPCRGLVGNLLLGASGMASGCKIGPSILNSDLANLGAELR MLDSGADYLHLVDMDGHFVPNTTFGHFVVESLRKQLGQDPFFDM HMMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRNGM KVGLAIKPGTSVEYLAPWANQIDMALVMTVBPFGGQKQFMEDMM PKVHNLRTQPPSLDIEVDGGVGPDTVHKCAEAGANNIVSGSAIN RSEDPRSVINLLRNVCSEAAQKRSDDR
6289	1	743	VTLYPCRGLVGNLLLGASGMASGCKIGPSILNSDLANLGAELR MLDSGADYLHLVDMDGHFVPNTTFGHFVVESLRKQLGQDPFFDM HMMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRNGM KVGLAIKPGTSVEYLAPWANQIDMALVMTVBPFGGQKQFMEDMM PKVHNLRTQPPSLDIEVDGGVGPDTVHKCAEAGANNIVSGSAIN RSEDPRSVINLLRNVCSEAAQKRSDDR
6290	3	1856	TIGRWLLGVYETVAPTLACLPRPRLRRRRRRRRRMRISRYTRKA VPQSLLELKGITKHALNHHPPEKLEBISPTSDSHEKDTSSQSKS DITRESSPTSADTGNLSAAPPSTYTGAGISTEGSSDFSWGYGELD QNATEKQVQMTPTADELLYEQLSVHTKSLQEECQWTFASPHL RILGRQIITPSEGRYLRPSPSAVSASYETTLSEQRDSTIPGIR GKLLHFSSSYAHKASSIAKSSSFCSMERDEEDSIIVSEGIIEY LAPDHIIDIEBGFHGGKSRATEKQKLGYPPIAPFYCMKEDVLAY VFDVWCKVVSCEQLTRSHWEGFASDDESNVAVTRPDSSESCV LSELHPLVLPVQSKVLYITENPMSLCQASRHQPNVNDLLVHG MPLQPRNLSLMDKLLDLDKLLMRPGSSTILSTRNWPNAVEFS TSSLSYTVQSTRRRNPPRTLHPISTSHSCAETPRSVETLRGA RVFVAPDSLSSPSPPTPLSRNLLPPIGTAEVHVSTVGPQRQMK PHGDSRAQSAVVDEPNYQQPQERLLLPDFFPRPNTTQSFLLOT QYRRSCAVEYPHQARPGRGSAGPQLHGSTKSQSGRPVSRTRQG P
6291	1732	602	LVAKMASSASARTPAGKRVINQEEELRLMKERQLSTSRKRIES PFAKYNRLGQLSCALCNTPPVKSELLWQTHVLGKHREKVAELKG AKEASQGSSEASSAPQSVKRPADADDQVKRAKATLVQVQVQST SAWTTNFDKIGKEPIRATPSKPSGLSLLPDYDEDEEEEEEKGGD GERKRGDASKPLSDAQGKEHSVSSSEVTSSVLPNDFFSTNPPK APTIPHSGSIEKAEIHEKVVERRENTAEALPEGFFDDPEVDARV RKVDAPKDQMDKEWDEPQKAMRQVNTISEAIVABEDEEGRLDRO IGEIDQIECYRRVEKILRNQDEIRNKLKEILTIKELQKKREEN ADSDDEBGLQDLSQDWRVKGALL
6292	1835	1142	TCPGAMKVPAPWTRFYNSNCCLCCHVRTGTILLGVWYLIINAVV LLILLSALADPDQYNFSSSELGGDFEFDANMCIAIAISLMI LICAMATYGAYKQRAAWIIPFFCYQIFDFALNMLVAITVLIYPN SIQEIIRQLPPNFPYRDDVMSVNPTCLVILLFISILITFKGY LISCWNCYRYINGRNSDVLVYVTSNDITVLLPPYDDATVNGA AKEPPPPYVSA
6293	2382	1035	PWCTLGTVDVHPIGWCAINSKILVPPRTIHAFTDWKGYLMKRL VGSRTLVDVFIKHMVESMKYPFRQGMRLVVDKSOVSRTMAVV DTVIGRLRLLYEDGDSUDDFWCHMNSPLIHPVGWSRRVGHGK

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			MSERRSDMAHPTFRKLYCDVAVPYLFKKVRAVYTEGGWFEEGMK LEAIDPLNLGNICVATVCKVLLDGYLMICVDGGPSTDGLDWFCY HASSHAIFFATFCQKNDIELTPPKGYEAQTFNWNENYLRKTKSKA APSRLEFNMDCPNHGFKVGMKLEAVDLMERLICVATVKRVVHRL LSIHFDGWDSYDQWVDCSPDIYPVGWCELTYQLQPPVAAEP ATPLKAKEATKKKKKQFGKKRRIPTKTRPLRQSSKKPLLEDD PQGARKISSEPVFGEIIAVRVKKEHLDVASPDKASSPELPVSVE NIKQETDD
6294	354	1814	AQLITRGRTVAGGVWIPSPFPDLELYSCCLGTDGRFPPELSHHC KNVIATASDYDMAEITNIRPSFDVSPVAVGLIGASVLVVCVSVT VFVWSCCHQQAEEKKHNPYKFIHMLKGISYIPETLSNKKKIK VRRDKDGPREGGRRNLLVDAEAGLLSRDKDPRGPPSSGSCIDQ LPKMDYGEELRSPITSLTPGESKTTSPSSPEEDVMLGSLTFSV DYNFPKKALVVTIQEAHGLFVMDQQTQSSDPYIKMTILPDKRHR VKTRVLRKTLDPVFDFTFYGYIPYSOLQDLVLHFLVLSFDRFS RDDVIGEVMPVLAGVDPSTGKVQLTRDIKRNIOKICISRGELQV SLSYQFVAQRMVTVVLKARHLQKMDIAGLSGNPYVKVNVYYGRK RIAKKKTIVKCKTLNPIFNESFIYDIPDILLDISIEFLVIDFD RTTKNEVVGRLLILGAHSVTASGAHWRVCESPRKPVAKWHSLS BY
6295	2795	617	VSSALLTGATSGSDAAKSEGAASPLSCTNAVAMDRPDEGPPAK TRRLSSSESQRPDP PPPPPFPPLRLPLPPPPQRPRLQEETAA QVLADMVGVLGFPALPPPPYVILEEGGIRAYFTLGAECPGWS TIESGYGRAPPPTESLEALPTPRASGGSLEIDPQVQSSSPGGE GALETCSAVGWAPQRLVDPKSKKEAIIIVEDEDEDRSMRSSR RRRRRRRRKQKRVKRESRERNAERMESILQALEDIQLDLEAVNI KAGKAFRLKRRKFTQMRRPFLERRDLIIQHIFGFVWKAFLNHR ISILINRRDEDI FRYLTNLQVQDLRHISMGYKMKLYFOTNYPPT NMVIVKEFQNRSGRLVSHSTPIRWIRGQEPQARRHGNQDASHS FFSWFNSHSLPADRLAELIKNDLWVNPRLYYLRERGSRIKRRK QEMKKRKTGRCEVVMEDADPYAYVEDIFSEISDIDETIHDIK ISDFMSTIDYFRTTNDNEITDINENICDSRNPDPHNEVPMNETDN NESADDHETTDNNEASADDNNENPEDMNKNTDDNEENPNNNENTY GNNEFFKGFPGWSEGNQDSDSIDNEADEASDDEDDNDGNEGDNEG SDDGNEGDNEGSDDDDRDIEYRKVIEDFDKQDQADYEDVIEII SDESVBEGIEBGIQQDEDIYEEGNYEEGSEDDVWEEGEDSDDS DLEDVLQVPNGWANPGRKRGKTG
6296	727	1199	RHCGCDAQGACDSLPTTCTSSPVTARNATPRARCCVWLLDGTTV EAVRPARERLARKELRQKRMQFSDRSAYSSNKDSTCLLTERDT LGTSLOFPSPFSGTISFGSPSDSGIFPLGSQCCLGFPQPSISGK KVALIHKRVRLSVFGARWGRIFYGK
6297	1	922	QRAAAASPSGCGPRGABYGALMAMEGYWRFLALLGSALLVGFIS VIFALVWVLHYRBLGNDGSALERPNWHPVLMVTGPFVFIQGIAT VYRLPWTWKCSKLMKSIHAGLNAVAAILAISVVAVFENHNVN NIANMYSLSHWGLIAVICYLLQLLSGFVSFLLPWAPLSLRAFL MPIHVYSGIVIFGTVIATALMGLTEKLI FSLRDPAYSTFPPEGV FVNTLGLLLILVFGALIPWIVTRPQWKRPKPNSTILHPNGGTEQ GARGSMPAYSCNNMDKSDSELNNEVAARKRNALDEAGQRSTM
6298	3	985	SVPLRRLSLSGTLQAGTTTKMAVARLAAVAANVPCRSWGAAY PFGPHRQLSVLLARI PQRAPRWLPACRQKTSLSFLNRPDLPLNLA YKLLKGSPIGIIIPGYLSYMGTKALAIIEEFCKSLGHACIRFD YSGVGSDDGNSERSTLGKWRKDVLSIIDDLADGPQILVGS SLGG WMLMHAAIARPEKVVALIGVATAADTLTKPNQLPVLKKEVEM KGVWSMPSKYSEGVYVQYSFIKEAHHCLLHSPIPVNCPIRL LHGMDKDIVPHTSMQVADRVLSTDVDVILRKHSDHRMREKADI QLLVYTTIDDLIDKLSTIVN

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6299	512	814	ECDELEGIMPNVTISLSLPTNGSPLODILVHPCVTSLDSAILTSS SIDAMDDSAFSGPYKFPPTPPLESFNLCFYTSQVPPVPPILGFYQ MKEEVQLRNNH
6300	121	692	AAPSCWSQRGVPAAGTPSSPRLLVSRRAAPSAGPWGAWRQGARA AQSPFSIPNSSSVPYGSDSVHSSPEDGGGGRDRPVGGSPGGPR LVIGSLPAHLSPHMFPGFKCFVCSKRFVSSDEMHLVLMCLTKPR ITYNEVDVLSKDAGCAICLEELQGGDTIARLPCLCTYHKGCIDB WFEVNRSCPEHPSD
6301	616	284	GKFPVNVWEPQPLFPFKYLRCYRCLETKELGCLLGSDICLTP AGSSCITLHKNSGSDVMVSDCRSKQMSDCNTRTSPVSGFW IFSQYCFLDPCNDPQNRGLYTP
6302	490	745	IPGFLHLFMEHSPFLVLCALFAHVFPSSSCGSSVALHSDPCLLS PVLLNCLPGDLRLPLDELYAQKLKYKALISELDHALNDMTSL
6303	2	1961	YKNEYGGGLLWQSWQEKHPQALSSFPNFPDTKEWEQHYSQL XWYYLEQFYWEAQWTFDASQSCDITDTTSKTEADKNDKCKM KVDLVSPLSSPIMGDNDSSGTSKDHSEILDGISNKLINSEEV QSQLDSCSTSHDGHQQLSEVSSKRECPASGQSEPRNGGTNEESNS SGNTNTDPPAEDSQKSSGANTSKDRPHASCTDGESEEDPPEHK PSKLKRSHELDIDENPASDFDSSGSLGPKYGGQKYGGIPNFS HRQVRYLEKNVILKSKYLDMRQIKMKNKHIFTKSEKPFPPK SKILSKVEKFLTWVKNKPMDEEASQSSSHDNGHDASTSCDSEBQ DMSVKKGDDLLLTNNPEPEKQCSVSSAGLETENYERDSILATP PDEQDCVTQEVDPDSRQAETAEVKKKKNKKKNKVNGLPPEIAA VPBLAKYWAQRYLPSRFDDGKILDRGNWFSVTPEKIAHIAGR VSQSFKCDVVVDAPCGVGNTIQFALTGMRVIAIDIDPVKIALA RNNAEVYGIADKIEFICGDFLLASFLKADVVFLSPWGGPDYA TAETFDIRTMSPDGFEIFRLSKKITNNIVYFLPRNADIDQVAS LAGPGGQVEIBQNLNNKLKTTITAYFGDLIRRPASET
6304	1	1438	HRARVDRSRESFGGLRHPGRVRRDITLSGHPRLSTOHVLLRE DEVGDPGTLDLGHPOHGSPIQETQSEVVTLVSPPLGSDMAALPA WRATSGTLWPHTAEGRDLLGAENRALTGQQAEPTLBSAGAY WPGSVEKLQGSVWCDAETLLSSRTGGQAPPWLTDEHDVQMLRL AQGEVVDKARVPAHQVQLQVGFSTEAALQDLSSPRLSQLCSQGL CGLIKRPGDLPEVLSFHVDRVLGLRRSLPAVARRFHSPPLPYRY TDGARFVWVWAPDVQHLSDPDDEQNSLALGNLQYQALLAHSCN WPGQAPCPGIHHTENARLALPDLQLQVHDLRLDRYCOGFEPSPD PCVEERLREKCRNPALRLVHILVRSSDPShLVYIDNAGNLQHP EDKLNFRLLLEGIDGFPSAVKVLASGCLQNMMLKSLQMDPVFWE SQGGAQGLKQVLQTLQEQGVLLGHIQKHNLTLFRDEDP
6305	99	420	NMIWGRSTYRPRRSPVPPPLIGPMLEPGDEEPQOEPPTES RDPAPGQERBEDQGAETQVPDLEADLQELSQSKTGDECGDGPD VQKILTKSEQKMPGR
6306	1	1874	PTRPSPKVKVPHFTLIHSYTRPTVCQACKLLKGLPRQGLQCKDC KFNCHKRCATRVNDCLGEALINGDVPMEETDFSEADKSALMD ESEDGVI PGSHSENALHASEEEEGEGGKAQSSLYIPLMRVVQ SVRHTTRKSSSTTLREGWVVHYSNKDTLRRRHYWRLDCKCYTLFQ NNTNRYYYKEIPLSEILTVEAQNPSLVPPGTNPHCFRIVTANA TYPVGENPFGTTPGCPSCQGAEAARGWETAIRQALMFVILQDAPS APGHAPHRQASLSISVNSQIQENVDIATVYQIFPDEVLGSGQF GVVYGGKHKRKTGRDVAVKVIDKLRFPTKQESQLRNEVALQSLR HPGI NVLECMFETPEKVFVVMKLLHGDMLRMILSSEKGRPLERL TKFLITQILVALRHLHPKNIVHCDLKPENVLLASADFPQVKLC DFGFARIIGEKSPRRSVVGTAYLAPEVLLNQGYNRS LDMWSVG VIMYVLSGTFPFNEDEDINDQIQNAAPMYPASPWSHISAGAI LINLLQVKMRKRYSDKSLSHPWLYQYQTLWDLRELEOKMGER YITHESDDARWEQFAABHPLPGSGLPTDRDLGGACPPQDHDWQG

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6307	2136	589	LAERISVL CFLLPGRDPEPPEAGAAAPCAPGAPDMSFRKVVVRQSKPRHVF QPVKNDOCYEDIRVSRVTWDSFTCAVNPKEFLAVIVEASGGGAPL VLPLSKTGRIDKAYPTVCGHTGPVLDIDWCPHNDEVIASGSDC TVMVWQIPENGLTSPLTEPVVULEGHTKRVGI IAWHPTARNVLL SAGCDNVVLIWNVGTAEELYLRLDLSLHPLDIYNVSWNHNGSLFC ACKDKSVRIIDPRRGTLVAEREKAHEGAPMRAIFLADGKVF GFSRMSEQLALWDPENLEEFMALQELDSSNGALLPFYDPDTSV VYVCGKGDSSIRYFEITEPEPPYIHFLNFTSKPEPQRMGSMKPR GLEVSKCIARFYKLHERKCEPIVMTVPRKSDLFQDDLYPDTAG PEAALEAEWVSGRDADPILISIREAYVPSKQDRLKISRRNVLS DSRPAMAPGSSHLGAPASTTTAADATPSGSLARAGEACKLEEV QELRALRALVKEQGDRI CRLEEQIGRMENGDA
6308	2	1118	GRPTRPEKMLLSVLHTYSMRYLLPSVVLGTAPTIVLAWGVWR LLSAFLPARFYQALDDRLCYVQSMVLFPEENTYGVQILLYGDL PKNKENIYLANHQSTVDWIVADILAIQNALGHVRYVLKEGLK WLPYLGWYFAQHGGIYVKSARKFNEKEMRNKLQSYVDAGTPMYL VIFPEGTRYNPEQTKVLSASQAFAPQGLAVLKHVLTPIKATH VAPDCMKNYLDAIYDVTVVYEGKDDGQRRSEPTMTFLCKECP KIHIIHIDRIDKDVPEEQEHMRRLHERFEIKDKMLIEFYESP PERKRPFKSVNSKLSIKKTLPSMLILSGLTAGMCMTDAGRKL YVNTWIYGTLLGCLWVTIKA
6309	220	563	LVAKVKEPCSLPMLSVDMENKENGSGVGVKNSMENGRRPPDADWA VMDVNVYFRTVGFEEQASAFQEQEIDGKSLMLMTRNDVLTGLQL KLGPALKIYBYHVKPLQTKHLKNSS
6310	36	979	GPRCWKFLILSSVNCETLRIGKAWPQSSGQERYWTPRTHSSASE AQRGSLAEZLNVAAGLWADCDQPLYDCPMGLICTNYHILQEHV DLHLEENSFOQGMDRVQCSGDLQLAHQLEQEDRKRRESERQ IEEFQKLQRQYGLDNGSGYKQQLRNMEIEVNRGRMPPEFHR KADMMESIALGPDGKTGTSGIEALHRYQNAATDVRVWLSS VVDHFHSSSLGDKWGCGRNFQMLSSLLQNDAYNDCIKGMLIP CIPKIQSMIEDAWKEGFDPOGASQLIIRLQGTGAWIGACEVYIL LTSIRV
6311	1	675	PVWVNSCEGPRLAAARTGHGVGRRARLACLGEPRVKAAMVLT ASKLRDDGLKGSRTAATASDSTRVSVRDKLLVKEVARLEANL PCTCKVHFPDFNKLHCFQLTVPDEGYQGGKFPFETEVDPAYN MVFPKVKCLTKIWHPNITETGEICLSLLEHSDGTGWAPTRTL KDVVWGLNSLFTDLLNFDDPLNIEAAHHLRDKEDFRNKVDDYI KRYAR
6312	213	1400	GDELVKREAGMKMLFGVGVPTGSSARVLVPLLRAGPTVEALW GKTEERAKQLAKEMNIAFYTSRTDDILLHQVDLVLCISIPPLT RQISVKALGIGKNVCEKAATSVDAFRMVTASRYYPQLMSLVGN VLRFLPAPVRMKQLISEHYVGAVMICDARIYSGSLSPSYGNIC DELMGGGGLHTMGTYIVDLLTHLTGRRAKKEVHGLLKTFRQNA IRGIRHVTSDDFCFQMLMGGGVCSTVTLNFMMPGAFVHEVMV GSAGRLVARGADLYGQKNSATQEKLLLRDSLAVGAGLPEQGPQD VPLLKLGVMVYVQALRQSPQCGDRRTWDRTPVSMASFEEDGL YMQSVVDAIKRSSRSGEWEAVEVLTETPDNQLCEALQRNNL
6313	2	2071	QRSGAARLAFLPSEFSPACVHRSPLSFHGCWFFVVFVMPGLV FHRRAHAGCTLSCSSFEQPTAMEAEETMCLQBFPEHHKMILD RLNEQREQDRFTDITLIVDGHIFKAHKAVALAACSKFFYKFPQF TQELVEIEGVSKMAFRHLIEFTYAKLMIQGEREANDVWKA FLQMLEAIKALEVRNKENSAPLENTTCKNRAKKRKAETSNVI TSLPSAESEPEVEIEVEIAEGTIEVEDEGIEFEEVASAKSVK YQSTGSSDSSALALLADITSKYRQGDRCQKQIKEDGCPSPDTSK QVEGIEIVBLQLSHVKDLPHCEKCNRSFKLFYHFKBHMKSST

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			SPKCEICNRYLRSAWKQHLNLCYHLEBGGVSKKQRTGKKIHVC QYCEKQFDHFGHFKEHLRKHTGKPFCEPCNCHERFARNSTLKCH LTACQTVGAKKGRKKLYRCQVCNSVFNSWDQPKDHLVIHTGDK PNHCTLCDLWFMQGNELRRHLSDAHNISRVLVTEVLSVETRVO TEPVTSMITIEQVGKVHVLPLLQVQVDSAQVTVEQVHPDLLQDS QVHDSHMSRLPEQVQVSYLEVGRITQTEGTEVHVVEELHVERVNO MEPVEVQTELEADLDHVTPEIMNQEERESSQADAAEAAREDHED AEDLETKPTVDSEAEKAENEDRTALPVLE
6314	2	2071	QRSGAARLAFPLSPFSPACVHRSPLSFHGCWFFYPVVVFMPLGVL FRRRAHAGCTLSCSSFEQPTAMEAEETMECLQEPPEHHKMILD RLNEQREQDRPTDITLIVDGHFKAHKAVALAACSKFFYPQFQEF TQBPVLEIEGVSKMAFRHLETTYAKLMIQGESEANDVWKAEE FLQMLEAIKALEVRNKENSAPLSENTTGKNEAKKRKIARTSNVI TESLPSARSEFPVEIEVRIABGTIEVEDEGISTLEEVASAKQSVK YIQTSGSSDSDSALALLADITSKYRQGDGRKGQIKEDGCPDPTSK QVEGIEIVRLQLSHVKDLFHCCKNRSFKLPYHFKHEMKSHSTE SFKCEICNRYLRSAWKQHLNLCYHLEBGGVSKKQRTGKKIHVC QYCEKQFDHFGHFKEHLRKHTGKPFCEPCNCHERFARNSTLKCH LTACQTVGAKKGRKKLYRCQVCNSVFNSWDQPKDHLVIHTGDK PNHCTLCDLWFMQGNELRRHLSDAHNISRVLVTEVLSVETRVO TEPVTSMITIEQVGKVHVLPLLQVQVDSAQVTVEQVHPDLLQDS QVHDSHMSRLPEQVQVSYLEVGRITQTEGTEVHVVEELHVERVNO MEPVEVQTELEADLDHVTPEIMNQEERESSQADAAEAAREDHED AEDLETKPTVDSEAEKAENEDRTALPVLE
6315	1	1015	LGIAVNVVTTLVLSYCPATETAPYWTYLLCALGLFIYQSLDA IDGKQARRTNSCSPLGELPDHGCDSLSTVFMVAGASIAARLGT PDWFFSCSPICMFVFPYCAHWQTVVSGMLRFGKVDVTEIQIALVI VPVLSAFGGATMWDYTIPILEIKLILPVLGFLGGVIFSCSNYF HVILHGGVGKNGSTIAGTSVLSPLGLHGLIILAIMIYKKSATD VFERKHPCLYILMFGCVFAKVSQKLVAHMTKSELYLQDTVFLGP GLLFLDQYFNNFIDEYVVLWMAVVISSFDMVIYFSALCLQISRH LHLNIFKTACHQAPFQVQVLSKSHQNNMD
6316	1503	792	VSAGAGTGIMGGTTSTRRTTPEADENENITVVKGIRLSENVDR MKSSPSGSKSQRYSGAYGASVSDERLKRRAVABBLALBQAKKE EDQKRLQAKELDRERAAANEQLTRAILRERICSEEBRAKAKHL ARQLEEKDRVLKKQDAFYKEQLARLEERSSEFYRVTTQYQKAA BEVEAKFKRYESHVPVADLQAKILQCYRENTHTLKCASALATQY MHCNVNHAQSMLEKGG
6317	102	839	PEAQTSAVLAREKGLPTMRHEAPMQMASAQDARYGQKDSDDQ FDYMPKLLIIGNSSVGKTSFLFRYADDSFTSAFVSTVGIDPKVK TVFKNEKRILQIWDTAGQERYRTITTAYYRGAMGFILMYDITN BESFNAVQDWSTQIKTYSWDNAQVILVGNKCMEDERVISTERG OHLGEQLGFEFFETSAKDNINVQTFERLVDIICDKMSLELTD PAITAAKQNTRLKETPPPPQFNCAC
6318	1765	733	PWHPLRTPLHHPHPPRAEGREGADSMHPLGLELRREAPPL LGPLLSPPFLPAGSWHRQMLRSSLRFPITNSAGAPCKAAGRMT LAPVRRDRVLAEPLQCLRKEAALHGHKDFHPRVTCACQEHRTGT VGFKISKVIVVGDLSVGKTCLINRFCKDTPDKNYKATIGVDFEM ERFEVLGIPFSLQWLDTAGQERFKCIASITYRGAQAIIVFNLN DVASLEHTKQWLADALKENDPSSVLLFLVSGSKDLSTPAQYALM EKDALQVAQEMKAEYNAVSSLTGENVREFFFRVAALTFEANVLA KLEKSGARRIGDVVRINSDDSNLYLTASKKKPTCCP
6319	88	717	AATMRLNQNTLLLGKKVVLVPYTSERHVSRYHEWMKSEELQRLT ASEPLTLEQYAMQCSWQEDADKCTFIVLDAEKWQAQPGATEES CMVGDVNLPLTDLEDLTGRIEVMIAEPSCRGKGLGTEAVLAML SYGVTTLGLTKFEAKIGQNEPSIRMFQKLHFEQVATSSVPQEV

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6320	90	1111	TLRLTVSESEHQWLLLEQTSHVVEEKPYRDGSAEPC RPRGTGRKVMMAVDSFYLLVREIARSCNCEALALVGAWYTA RKSITVICDFYSLIRLHFIPRLGSRADLIKQYGRNAVVSATDG IGKAYAEELASRLNIIILSRNEEKLVVAKDIADTYKVETDII VADFSRGREIYLPVIREALKDKDVGILVNNVGVFPYPQYFTQLS EDKLWDIINVNTAAASLMVHVLPGLMVBRKGAIVTISGSCCK PTPQLAASFASKAYLDHFSRALQYBYASKGIFVQSLIPFYVATS MTAPSNFLHRCSWLVPSPKVYAHAVSTLGISKRTTGYNSHSIQ FLFAQYMPPELWVGANILNLSLRKEALSCTA
6321	1418	341	HRKAALGALMAGRLLGKALAAVSLSLALASVTIRSSRCRGIQAF RNSFSSSWPHLNTNMVSGSNGSKENSHNKARTSPYFGSKVERSQ VPNEKVGWLVWQDYKPVETAVSVLAGPRWADPQISBSNFPSPK FNEKDGHERKSKNGLYEINGRPRNPAGRTGLVGRGLLGRWGP NHAADPIITRWKRDSSGNKIMHPVSGKHILQFVAIKRKDCGEWA IPGGMVDPGEKISATLKREFGEBALNSLOKTSABKRRIEKLHK LFSQDHLVIYKGVDDPRNTONAMMETRAVNYHDETGEIMDNL LEAGDDAGKVKWDINDKLKYASHSQPIKLVAEKRDHWSSEDS EADCHAL
6322	2047	1083	NQIILKNVSSRTVQPHFLEPLLGLWSVDVGRHPGWTGHVST WSINCCDDGEGSQEEVISEDIGASIPNGQKKVLYADALTEI AFVVPSPVESLTDLSLENI SDODSDSNMDLMPGILKQPSLTLEL FPNHTDNLNSSLSPSSRMKLPQGREVPVPLGPETRVSVVWVE RYDDIENFPLSELMTREISTGVETTANSSTSLRSTTLEKEVPVIF IHLNLTGLFRIKIQCATGKFMNVIPLVDGMIVSRRALGFLVRQT VINICRRKRLESDSYSPPHVRRKQKITDIVNKYRNKQLEPEFYT SLFQEVGLKNCS
6323	1	656	PASTTDGAQEARVPLDGAFWIPRFPAGSPKGFACVSKPPALQA PAAPAPESPASPPMPTLFPMESSKSKTDSVRAAGAPPACKHLA EKKTMINPTTVIEVYPTTEVNDYLLWSIFNPFVYLNFCCLGFLA LAYSLEKVRDKLLNDLNGAVEDAKTDRLINITRSLAASCIMLW MALSVIATHRGLRSSASILVAEPHDWTERPQVTFRERCPAL EAGMRRCPCRGSLNEAEAGALPAAARMGLEAPRGRRRQPGQO RPGPGAGAPAGRPEOGGPWARTEGSSLSHSEPERAGLGPAPGTES PQARFMTDQGTPEAAAGLVETERPKQKTEPDRSSLRTHLEWSW SELGTTCLWTETGTGLWTDPHRSDLQFQPEKASPWTQPGVHGP WTELETHGSGTQPERVKSWADNLWTHQNSSSLQTHPEGACPSKE PSADGSWKELYTDGSRTOQDIEGPWTEPYTDGSQKKQDTEAARK QPGTGGFQIQDITDGSWTQPSDTGSQTAPGTDCLLGEPEDEGPLE EPEPGELLTHLYSHLKCSPLCPVRLIITPETPPEAQPVGPPS RVEGGSGGFSSASSFDESEDDVAGGGGASDPEDRSGSKPWKIL KTVLKYSFVVSFRKHYPWVQLSGHAGNFQAGHDGRILKRPQC BQRSLEQLMKDPLRPFPVAYYGMVLQDQTFNQMEDLLADFRGP 9IMDCMGSRTYLEELVKARERPRPRKDMYKMWAVDPGAPTP EEHAQGAVTKPRYMQNRETSSTSLGFRIEIKKADGTCNTNF KKTQALEQVTKVLEDFVDGDHVIILQKYVACILEELREALISPPF KTHEVVGSSLLFVHDHIGLAKVMMIDFGKTVALPDHQTLSHRLP WAEGNREDGYLWGLDNMICLLQLLAQS
6324	1	2061	GLRDPFRKRRLKPVQKMSNYVNDMWPGSPQEKDSPSTSRSGGS SRLSSRSRSRSFSRBSRSHSRVSSRFSRBSRBSRBSRBSRBSR RKYRRYSRSYSRBSRBSRBSRBSRBSRBSRBSRBSRBSRBSR RSRBSRBSRBSRBSRBSRBSRBSRBSRBSRBSRBSRBSRBSR TRSRSTPFRLEKDRMELLEIAKTNAKALGTTNIDLPASLRT VPSAKETSRGIGVSSNGAKPEVSIILGLSEONFQKANCQI
6325	165	944	GEPSPATQKQPSATGAGVLHQHFSSGHIIVLMGLLPPPWTTISFT VQTTLQPPGGLPAAPVSGRMAPBPVGRDLARRMVPBRAGKRTQTL GARRVAAQGARPLPEDRRPKSGERLHVTVAPCWEFVLPVSLTA
6326	238	680	

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			QAWGGVGQEASSGVP
6327	1	1337	SLARLAPAGGSVVMPTQQPAPSTRAPKPSRSLSGSLCALFSDA DSGSGMKARLPPGPGAVGREMTKREKLQLRKEKKQKKKKKEEK GABPETGSAVSAACQGPTRRELPSGIIQLGTPREKVPAGRSKAE LRAERRAKQEAERALKQARKGEQGGPPPKASPSTAGETPSGVKR LPEYPPQVDDLLRLRLVKKPRQVPTRKDYGSKVSLFSLHPQYS RQNSLTQFMSPSSVIHPAMVRIGLQYSQGLVRGSMNARCIALLR ALQQVIQDYITFPNEELSRDLVNKLKPYMSFLTQCRPLSASMIN AIKFLNKEITSVGSSKREBEAKSELRAAIDRYVQEKIVLAAQAI SRFAYQKISNGDVLVYGCSLSLVRILQEAWTEGRRFRVTVVDS RPWLEGRHTLRSLVHAGVPASYLLIPAASYVLPEVSTEEDKSKV GGEKV
6328	1030	276	HASAEVITAAARGLGAMEEEMHTDAKIRAENGTSPPRGPGCSL RHFACQNLISRPDGSASFLOQDTSVLGAVYGPABVKVKEIYN KATLEVILRPKIGLPGVAEKSRERLIRNTCEAVVLGTLHPRTSI TVVLQVSDAGSLIACCLNAACMALVDAGVPMRALFCGVACALD SDGTLVLDPTSQKQKRAVLTALDSEVERKLLMSSTKGLYSYT ELQQCLAAQAASQHVFRFYRESLQRRYSKS
6329	3	2016	SSEVAAGGOTRSAMAEQSGEVVTVSATGAANGLNNGAGTSATT SNPLSRKLHKILETRLDNDKEMLEALKALSTFFVENSIRTRNL RGDIERKSLAINEEFVSIFKEVKEELESISEDVQAMSNCCQDMT SRLQAAKEQTQDLIVKTTKLQSESQKLEIRAQVADAPLSKFQLT SDEMSLLRGTRREGPITEDFFKALGRVKQIHNDVKVLLRTNQQT GLEIMEQMALLETAYERLYRWAQSECTLTQESCDVSPVLTQA MRALQDRPVLKYTLDEFGTARRSTVVRGFIDALTRGGPGGTPR PIEMHSHDPLRYVGDMLAWLHQATASEKEHLEALLKHVTQGV ENIQEVVGHITGVCRPLKVRIBQVIVABPGAVLLYKISNLLKF YHHTISGIVGNSATALLTTEEMHLLSKKIFFNLSLSLHASKLMD KVELPPDLPSSALNQTLMLREVLASHDSSVVPDARQADFV QVLSCVLDPLQMCVTSASNLTADMATFMVNSLYMMKTTALAF EFTDRRLMLQFQIEAHLDTLINEQASYVLTTRVGLSYIYNTVQQ HKPEQCSLANMPNLDVTLKAMVQFDRLSAPDNLLIPQLNFI LSATVKEQIVKQSTELVCRAVEVYAAVMNPINEYKDPENILHR SPQQVQTLIS
6330	1151	333	FFYYTFYENKTFSRKMVAEKETLSLNKCPDKMPKRTKLLAQOPL PVHQPHSLVSEGFVKAMMKNSVVRGPPAAGAFKERTKPTAFR KPYERGDFFIALBHDSKGNKIWKVEIEKLDYHHYLPFPDGLC EMTFPYEFARQGIHDMLEHGGNKILPVLPLQIIPKNAIHLNRN RQVICVTLKVLQHLVVSAMVGKALVPYRQILPVLNIFKNMNV NSGDGIDYSQQKRENIQDLIQTLEAFERYGGENAFINIKYVVP TYESCILN
6331	3	495	QQQQRVTRGRACASATPLEGCVDLSPYRTHAALLKVAQMVT LLAFICVRSSSLWNTYSAYSFEVVTICDLIMILAFYLVHLFRFY RVLTICISWPLSELLHYLIGTLILLIASIVAASKSYNQSGLVAGA IPGFMAITFLCMASIWLSYKISCVTQSTDAV
6332	1	878	VTESNKFPLVSFIPLLRERTYSNNQYARQTIISWILVLESVPDI NLLDYLPEILDGLQILGDNKEIRKMCVVVLGEFLKEIKKNPS SVKFAEMANILVHCQTDDLIQLTAMCNMREFIQLAGRVMLPY SSGILTAVLPCLAYDDRKKSIEVANVCNOSLMKLVTPEDDEL ELRPGQRQARPTPDALPKQEGTASGEWTPSLHLTSCRGPRED VIGVALGPHLSNQDYFMYVTHITVAATORSGSSGSPFFCRQDTG KLSTMAHSQLVKTGTGLEPRQAVSSSH
6333	3	1467	TRTPSEAEAGGESQSCVSAHSDWTAGKPVSLIAPLIIPRSAG QPLTFSPGRQPLRSLLVGMCSSGRRSSLSPTMRPGTGAERG GLMMGHFCMHYAPMGHHPMGQRANMPVPHGMMPQMPMPGGPP MGQMPGMSSVMPGMMMSHMSQASMQPALPPGVNSMDVAAGTAS

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			GAKSMWTEHKS PDGR TYYNTETKQSTWEKPDLLKTPAEQLLSK CPWKSYKSDSGKPYIYNSQTKESRWAKPKELEDLEGYQNTIVAG SLITXSNLHAMIKAEBSKQKECTITSTAPVPTTETPTMTMA AAEAAA AVAAAAAANANASTSASNTVSGTVPVVPERP EVTISIVATVVDNENTVTISTEEQAQLTSTPAIQDQSVESSTNG EETSKQETVADPTPKKEEBSQPAKKTYYTNTKEAKQAPKELL KEKRVPSNASWEQAMKMIINDPRYSALAKLSEKKQAFNAYKVQT EKK
6334	17	644	GGNPSGRAAGFAAAAMPSSPLRVAVVCSSNQNRSMERHNILSKR GFSVRSFGTGTGTHVCLGPGAPDKPNVYDFKTTYDQMYNDLLSKDK ELYTQNGILHMLDRNKRIKPRPRFQNCDFDLILTCEERVYD QVVEDLNSREQETCPVHVNVVDIQDNHEBATLGAFLICELCQC IQHTEDMENEIDELQEFEEKSGRTFLHTVCFY
6335	82	529	AARARPGVLCCLLGAALGDQSRVEMSYIPGPVTVAVVQVREIH KLKQGENLILGFSIGGGIDQPSQNFSEDKTDKGIYVTRVSEG GPAETAGLQIGDKIMQVNGWDMTMTVDQARKRLTKRSEEVVRL LVTRQSLQKAVQSSMLS
6336	1003	438	HEPASKGRAEFGNMRLSVAALSHGRVFERMGLGPESRIHLRN LLTGLVRRHERIEAPWARVDEMRYAEKLIDYKGLDGTNERAMRM ADFWLTKRDLIPKLFQVLAPRYKDTGGYTRMLQIPNRSIDRAK MAVIEYKGNCLPPLPLPRRDSHLTLNQLLQGLRQDLRQSQEAS NHSSHTAQTPGI
6337	76	524	BGIQMLSVQPDTPKPGCAGCNRKIKDRYLLKALDKYWHEDCLKC ACCDRLGEVGSSTLYTKANLILCRRDYLRLEFGVTGNCAACSKLI PAFEMVMRAKDNVYHLD CFACQLCNQRFVCGDKFFLKNMILCQ TDYBEGLMKEGYAPQVR
6338	66	1349	APNSESGTQGPLPTPANLFWTRRANPDPTTSMATDRMGPKAVP GLRLALLLLGLGTPKSGVQGGEGLDPEYDGVDRVINVNAKNY KNVFKKYEVLLLYHEPPEDDKASQRFEMBELLELAQVLED KGVGFGLVDSEKDAAVAKKLGLETVDSMYVFKGDEVIEYDGEFS ADTIVEFLLDVLEDPEVLEGERELQAFNIEDEIKLIGYFKSK DSEHYKAFEDAAREFHPYIPFPATFDSKGAKLTLLKNEIDFYE AFMEEPVTIPDKPNSSEIIVNFVEEHRRLTLRLKPESMYETWE DDMDGIHIVAPAEKADPDGFLETLKAVAQDNTENFDLSIIWI DDDFPLLVFYWEKTFDIDLSAPQIGVVNVTDADRLWMEMDDER DLPSARLEDWLEDVLEGEINTEDDDDDDD
6339	246	1823	NRCDRGGGQAEQAGQGCRTQAGPGFGHSGFSGAMKAPH TFCVLLVFGSVSEAKFDDFEDEKDIVEYDNDFAEFEDVMEDS VRESQPVIIITEDDEDETVELEGQDENQEGDFEDADTOEGDTE SEPYDDEFEFGYRDKPDTSSSKNKDPIITVDVPAHLQNSWESYY LEILMVTGLLAYIMNYIIGKNKNSRLAQANFNTHRELLENFTL VGDDGTNKEATSTGKLNQENEHIYNLWCSGRVCCBGMLIQRLFL KRQDLNLVLRMMRPVSDQVQIKVIMNDEMDITYVFAVGTAKAL VRLQKEMQDLSEFCSDKPKSGAKYGLPDSLAILSEMGEVTDGMM DTKMVHFLTHYADKIRS VHFSDQFSGPKIMQERGOPLKLPDTKR TLLLTFFNVPGSGNTYPKDMBALLPLMMNVIYSIDKAKKFRLNRE GKQKADKNRARBVENFLKLTHTVQREAAQSRREEKKRAEKRRIM NEEDPBKQRRLEKAALRREQKLEKKQMKMKQIKVKAM
6340	2	583	EACHTLSCPAFARLGRARRRPNMHSRTSSTFRAERSFHSSSSS SSSSTSSASRALPAQDPPMEKALSMFSDDGSPMRPHSEPLAF PARPGGAGNIKTLDGAYEFAVDVDFSPEDIIVTTSNNHIEVRA EKLADGTVMNNFAHKCQLPEDVDPTSVTSALREDGSLTIRARR HPHTEHVQQTPTETIKI
6341	2	645	KMAVLAPGLRGFRILGLRSSVGPVAVQARGVHQSVATDGPSSSTQ PALPKARAVAPKSSSRGRYVVAKLDDLNVNARRSSLPMTFGLA CCAEMMHMAAPRYDMDFRGVVFRA SPRQSDVMIVAGTTLNKMA

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6342	2	1191	PALRKVDYDQMPPEPRYVVSVMGSCANGGGYHYHSYSVVRGCDRIVPVDIYIEGCGPTAEALLYGILQLQRKIKRERRLQIWIYRR DPRVRAMLATLARVAALRKTCFLFSRGGGGRGLWTGPRQSDMNNIKPLEGVKILDLTRVLGPFATMNLGDLGAERVIKVERPGAGDDTRTWGPPFVGTESTYYLSVNRNKKSIIVNIKDPKGVKI IKELAAVCDVFVENVYVPGKLSAMGLGYED IDEIAPHI IYCSITGYGQTGPISQRAGYDAVASAVSGLMHTGTGPEVACL SHLAANYLIGQKEAKRWGTAGHSIVPYQAFKTKDGYIVVGAGMNNQFPATVCKILDLPELIDNSKYKTNHLRVHNRKELIKILSERFEEBELTSKNWLYLFBGSGVPYGPINNMKNVFAEPQVLHNLVMEHEHTVGKISVPGPAVRYSKFKMSEARPPFLLGQHTTHILKEVLRVYDDRAIGELLGAGVVDQHEH
6343	2	936	GTAMVSDDELNLIVIVVDANPIWVGKQALKESQPTLSKCIDAVMVLGNSHLFPMNRNENKLAVIASHIQESRFLYPGKNGRLGDPFGDPPGNPPEPNPSGSKDGKVELLTSANEVIVVEIKDMLTKSDIKGQHTETLLAGSLAKALCYIHRMNKEVKDNQEMKSRI LVIKKAEDSALQYMFNMNVI PAAQKQNTLIDACVLDSDSGLLQACDITGGLYLKV PQMPSLLQYLLWVFLPDQDQRSQTLTLPFVHVYDRAACFCRHNLTBEGYVCSVCLSI PCNFSPICCTTCBTAFKISLPPVLKAKKKLKVSA
6344	2508	147	TMPTATLGNLRGYGNASPGLAAPSLTPPOLATPNLQOPFPQATRQSLLGPPPPVGVPMNPSQFNLSGRNPQKQARTSSSTTPNRKIDSSSQTMPVEDKSDPPEGSBEAAEPRMDTPEDQDLPPCPEDIAKEKRTPAPEPEPCEASELPAKRLRSSEEPTEKEPPGQLQVKAQPOARMTVFKQTQTDPDLLPEALQAQVLPFRFPQPRVLQVQAQVQSQTQPRI PSTDTQVQPKLQKAQTQTSPEHLVLQKQKQVQVQQLQQAEPQKQVQ PQVQPOAHSQGPFRQVQLQQAEPKQVQVQVQVQVQVQVQVQVQVQLQKQVQITQYVQVHTQAQPSVQFQEHPPAQVSVQPPPEQTHBQPHQTQPVQSLLAPEQTTPVVHVHVCGLEMPDPAVEAGGMEKTLPEPVGTVQVSMERIQNESACGLDVGBECENRAREMPGVWAGGSLKVTILQSSDSRAFSPTVLPVTPVPRPSDSVSSTPAATSTPSKQALQFFCYICKASCSSQOEFODHMSRPOHQORLGEIQHMSQACLLSLPLVPRDVLETEDEEPPRRWCNTCQLYYMGDLIQHRRQTQDHKIAKQSLRPFCTVCNRYFRTPRKFVEHVKSQGHKDKAKELKLSLEKEIAGQDEDHFITVDVAGCGFEDEDEEEDDEDEEBIEVEBELCKQVRSRDISREXWKGSETYSPTAYGVDVFLVPVMGYICRICHKFYHNSNGAQLSHCKSLGHFENLQKYKAAKNPSPITRTPVSRRCAINARNALTALETSSGRPPSPQNTQDKTSPSKVTARPSQPLPRRSTRLKT
6345	2	3483	PRVTKTLILLVNDKKRYERVGGGPKRLGRDVMEMEIEQLQEKVHELEKQNDTLKNRLISAQQLQTOGYRQTPYNNVOSRINTGRKREANENAGLQECPRKGIKQDQADVAETPHPMFTKYGNSLLEBARGEIRNLENVIQSORGQIELEHLHARI LKTLQRLRKENRIELSILQLREQQATDQRSNTRDNVEMIKLHKQLVKSNALESAMEGKFIQLQEKQRTLKI SHDALMANGDELNMQLKEQRLKCCSLEKQLHSMKPFERRIRELQDRINDLEKERELLKENYDKLYDSAFSAHEEQWKLKEQQLKVQIAQLBTALKSDLTDKTEILDRLKTERDQNEKLVQENRELQLQVLEQKQLDLKRIKLYNQENDINADELSALLLKAQKEQKNGDLSFLVKVDSEINKDLERSMRELQATHAETVQBLEKTRNMLIMQHKINKDYQMKVEAVTRKMENTQDYELKVEQYVHLLDIRAIRIHKLEAQLKDIAYGTKQYKFKPEIMPDDSVDEFDETHLBERENLPEIHINKVTFSSVQLQASGDKEPVTFTCTYAFYDFELQTTVPVVRGLHPEYNFTSQYLVHVNDLFLQYIQKNTITLEVHQAYSTBYETIAACQLKPFHEILEKSGRIFCTASLIGTKGDI PNFGTVVEYWFRLRVPMQDAIRLYRERAKALGYITSNFKGPEHMQSLSQQAPKTAQLSSTDSTDGNLNLHITIRCCNHLQSRASHLQPHPYVVVYKFFDFA DHDTAIIPSSNDPQFDDHMYFPVPMNMDLDRLYLKSESLSYFVFDSDTQENIYIEKVNPVLISLAHDCISGIFELTDHQKHPAGTTH

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			VILKWKFAYLPPSGSITTEDLGNFIRSEEPVQRLPPASSVSTLVLAAPRPKPRQLTPVDKKVSFVDIMPHQSDVVSQEGSVDEVKENTEKMQQGGDDVSLSEGQLAEQSLASSEDFTITEDLEPEVEEDMSASDSDDCIIPGPISKNIKQPSKKIRIETIALSLNDSQVTMDDTIQLRFVECRFYSLPABETPVSLPKPKSGQWVYNYNENVIYVDKENNAKARDILKAILQKQEMPNRSLRFTTVSDPPDEBQDLECDIGVAHVLDLDMFQEGRDLEQNIDVFDARADGEGIGKLRVTVEALHALQSVYKQYRDDLEA
6346	2921	533	QDRLLRLLELQKTCQPTSTMSGSHTPACGPPSALTPTSINPQETLAKYTQKESAEQPEFYDFGFRVYKEEGDEPGSSLLANSPLMEDAPQRLRWQAHLEFTHNHDVGDLTWDKIAVSLPRSEKLSLVLAGIPHGMRPQLWMRLSGALQKKRNSLSYREIVKNSSNDETIAAKQIEKDLLRTMPSNACFASMGSIGVPRLLRRVLRALAWLYPEIGYCGQGTGMAACLLLFLEEDAFWMMSAI IEDLLPASYPSTTLGVO TDQVRRLHIVQYLPRLDKLLQEHDI ELSLITLHWF LTAFASVVDIKLLLRWDLPFYEGSRVLFQLTGLMLHLKEELIQSENSASIFNTLSDI PSQMEDAELLGVMRLAGSLTDVAVETQRRKHLAYLIADQGQLLGAGTLTNLSQVVRRTQRRKSTITALLFGEDDLEALKAKNIKQTELVDLREAILRVARHFQCTDPKNCSSVSRQLPGLLPNTALTPPTPLVGLYSLWQELTPDYSMESHQRDHENYVACSRSHRRRAKALLDFERHDDDELGPRKNDIITIVSQKDEHCWVGELNGLRGWFPKPFVEVLDERSKEYSIAGDDSVTEGVTDLVRGTLCPALKALFEHGLKKPSILGGACHPWLFIEEAAGREVERDPASVYSRLVLCKTFRLEDGKVLTPBELLYRAVQSVNVTHDAVHAQMDVKLRSLICVGLNEQVLHLWLEVLCSLPTVEKWKYQWSPFLRSPGWVQIKCELRVLCFPAFSLSQDWELPAKREAQQPLKEGVDRDMLVKHHLFSWDVDG
6347	2921	533	QDRLLRLLELQKTCQPTSTMSGSHTPACGPPSALTPTSINPQETLAKYTQKESAEQPEFYDFGFRVYKEEGDEPGSSLLANSPLMEDAPQRLRWQAHLEFTHNHDVGDLTWDKIAVSLPRSEKLSLVLAGIPHGMRPQLWMRLSGALQKKRNSLSYREIVKNSSNDETIAAKQIEKDLLRTMPSNACFASMGSIGVPRLLRRVLRALAWLYPEIGYCGQGTGMAACLLLFLEEDAFWMMSAI IEDLLPASYPSTTLGVO TDQVRRLHIVQYLPRLDKLLQEHDI ELSLITLHWF LTAFASVVDIKLLLRWDLPFYEGSRVLFQLTGLMLHLKEELIQSENSASIFNTLSDI PSQMEDAELLGVMRLAGSLTDVAVETQRRKHLAYLIADQGQLLGAGTLTNLSQVVRRTQRRKSTITALLFGEDDLEALKAKNIKQTELVDLREAILRVARHFQCTDPKNCSSVSRQLPGLLPNTALTPPTPLVGLYSLWQELTPDYSMESHQRDHENYVACSRSHRRRAKALLDFERHDDDELGPRKNDIITIVSQKDEHCWVGELNGLRGWFPKPFVEVLDERSKEYSIAGDDSVTEGVTDLVRGTLCPALKALFEHGLKKPSILGGACHPWLFIEEAAGREVERDPASVYSRLVLCKTFRLEDGKVLTPBELLYRAVQSVNVTHDAVHAQMDVKLRSLICVGLNEQVLHLWLEVLCSLPTVEKWKYQWSPFLRSPGWVQIKCELRVLCFPAFSLSQDWELPAKREAQQPLKEGVDRDMLVKHHLFSWDVDG
6348	3	3679	AGAECFVTLLACFLAQKQNKYKYEECKDLIKSMLRNLQPKREKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDASRSLNEHLQALLTPDEPKSQGDLQBLAEGCRLAQHLVQKLSPENDNDDDEDVQVEVAEKVQKSSSPREMQKABEKEVPEDSLBECAITCSNSHGPCDSNQPHKNIKITFEDEVNSTLVVDRESSHDECQDALN ILPVPGFTSSATNVSMVVSAGPLSGEKAAINILEINEKLRPQLAEKKQQFRNLKEKCELTQLACFLANQKQNKYKYEECKDLIKFMLN ERQFKBEKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDASRSLNEHLQALLTPDEPKSQGDLQBLAEGCRLAQHLVQKLSPENDNDDDEDVQVEVAEKVQKSSAPREMPKABEKEVPEDSL

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			<p>ECAITCSNSHGPDYDSNQPHRKTKITFEEDKVDSTLIGSSSHVEW</p> <p>EDAVHIIPENESDDEEEEEKGVPSPRNQSESEEEVPQESWDEG</p> <p>YSTLSIPPEMLASYKSYSTFHSLEEQQVCMVDIGRHRWDQVK</p> <p>KEDHEATGPRLSRELLDEKGPVQLQDSLDRCYSTPSGCLELTDS</p> <p>CQPYRSAPYVLEQQRVGLAVNMDEIEKYQVEEDQDPSCPRLSR</p> <p>ELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEE</p> <p>QYLGLALDVDRIKKDQEEEDQGGPPCRLSRELLLEVVEPEVLQD</p> <p>SLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIE</p> <p>KKGKGKKRRGRRSKKRRRRGRKEGEEDQNPCCPRLSRELLDEKG</p> <p>PEVLQDSLDRCYSTPSGCLELTDSQCPYRSAPYILEQQRVGLAV</p> <p>DMDEIEKYQVEEDQDPSCPRLSGELLDEKPEVQLQESLDRCYST</p> <p>TPSGCLELTDSQCPYRSAPYILEQQRVGLAVDMDEIEKYQVEE</p> <p>DQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQ</p> <p>PYSSAVYSLEEQYLGLALDVDRIKKDQEEEDQGGPPCRLSRELL</p> <p>LEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKH</p> <p>VGFSLDVGEIEKKGKGKKRRGRRSKKRRRRGRKEGEEDQNPCCP</p> <p>RLNSMLMEVEPEVLQDSLDRCYSTPSMYFELPDSFQHYRSVVFY</p> <p>SFEEHISFALYVDNRFFTLTVTSLHLVFMGVIFPQ</p>
6349	3	3679	<p>AGAERKCFVTLACFLAKQONKYKYECKDLIKSMLRNELQFKKE</p> <p>KLAEQLQAEELRQYKVLVHSQERELTQLREKLREGRDASRLN</p> <p>EHLQALLTPDEPKSQGDLQEQALAEGRCLAQHLVQKLSPENDN</p> <p>DDDEDVQVEVAEKVQKSSSPREMQKAEKEVPEDSLECAITCS</p> <p>NSHGPCDSNQPHKNIKITFEEDVNSTLVVDRESSHDECQDALN</p> <p>ILPVPGPTSSATNVSMVVSAGPLSGEKAANILEINEKLRPQLA</p> <p>EKKQQFRNLKEKCFLTQLACFLANQONKYKYECKDLIKFMLRN</p> <p>ERQFKKEKLAEQLQAEELRQYKVLVHSQERELTQLREKLREGR</p> <p>DASRLNEHLQALLTPDEPKSQGDLQEQALAEGRCLAQHLVQK</p> <p>LSPENDNDDDEDVQVEVAEKVQKSSAPREMPKAEKEVPEDSLE</p> <p>ECAITCSNSHGPDYDSNQPHRKTKITFEEDKVDSTLIGSSSHVEW</p> <p>EDAVHIIPENESDDEEEEEKGVPSPRNQSESEEEVPQESWDEG</p> <p>YSTLSIPPEMLASYKSYSTFHSLEEQQVCMVDIGRHRWDQVK</p> <p>KEDHEATGPRLSRELLDEKGPVQLQDSLDRCYSTPSGCLELTDS</p> <p>CQPYRSAPYVLEQQRVGLAVNMDEIEKYQVEEDQDPSCPRLSR</p> <p>ELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEE</p> <p>QYLGLALDVDRIKKDQEEEDQGGPPCRLSRELLLEVVEPEVLQD</p> <p>SLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIE</p> <p>KKGKGKKRRGRRSKKRRRRGRKEGEEDQNPCCPRLSRELLDEKG</p> <p>PEVLQDSLDRCYSTPSGCLELTDSQCPYRSAPYILEQQRVGLAV</p> <p>DMDEIEKYQVEEDQDPSCPRLSGELLDEKPEVQLQESLDRCYST</p> <p>TPSGCLELTDSQCPYRSAPYILEQQRVGLAVDMDEIEKYQVEE</p> <p>DQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQ</p> <p>PYSSAVYSLEEQYLGLALDVDRIKKDQEEEDQGGPPCRLSRELL</p> <p>LEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKH</p> <p>VGFSLDVGEIEKKGKGKKRRGRRSKKRRRRGRKEGEEDQNPCCP</p> <p>RLNSMLMEVEPEVLQDSLDRCYSTPSMYFELPDSFQHYRSVVFY</p> <p>SFEEHISFALYVDNRFFTLTVTSLHLVFMGVIFPQ</p>
6350	3	3679	<p>AGAERKCFVTLACFLAKQONKYKYECKDLIKSMLRNELQFKKE</p> <p>KLAEQLQAEELRQYKVLVHSQERELTQLREKLREGRDASRLN</p> <p>EHLQALLTPDEPKSQGDLQEQALAEGRCLAQHLVQKLSPENDN</p> <p>DDDEDVQVEVAEKVQKSSSPREMQKAEKEVPEDSLECAITCS</p> <p>NSHGPCDSNQPHKNIKITFEEDVNSTLVVDRESSHDECQDALN</p> <p>ILPVPGPTSSATNVSMVVSAGPLSGEKAANILEINEKLRPQLA</p> <p>EKKQQFRNLKEKCFLTQLACFLANQONKYKYECKDLIKFMLRN</p> <p>ERQFKKEKLAEQLQAEELRQYKVLVHSQERELTQLREKLREGR</p> <p>DASRLNEHLQALLTPDEPKSQGDLQEQALAEGRCLAQHLVQK</p> <p>LSPENDNDDDEDVQVEVAEKVQKSSAPREMPKAEKEVPEDSLE</p>

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			ECAITCSNSHGPDYDSNQPHRKTITFEEDKVDSTLIGSSSHVEN EDVHIIPENESDDREEBKGPVSPRMLQSESEEEVPQESWDEG YSTLSIPPEMLASYKSYSTFHSLEEQVCMVAVDIGRHRWDQVK KEDHEATGPRLSRELLDEKGPVQLQSLDRCYSTPSGCLELTDS CQPYRSAPYVLBQQRVGLAVNMDEIEKYQEVEEDQDPSCPRLSR ELLEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEE QYIGLALDVIDRIKKDQEEEDQGPFCPRLSRELLVEVEPEVLQD SLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGPSLDVGETE KKGKGRKRRGRSKKRRRRGRKKEGEDQNPCCPRLSRELLDEKG PEVLQDSLDRCYSTPSGCLELTDSQPYRSAPYILEQQRVGLAV DMDEIEKYQEVEEDQDPSCPRLSRELLDEKEPEVLQESLDRCY TSGCLELTDSQPYRSAPYILEQQRVGLAVDMDEIEKYQEVE QDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQ PYSSAVYSLEEYIGLALDVIDRIKKDQEEEDQGPFCPRLSRELL LEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKH VGFSLDVGETEKKKGKGRKRRGRSKKRRRRGRKKEGEDQNPCCP RLNSMLMEVEPEVLQDSLDRCYSTPSMYFELPDSFQHYRSVVFY SFEEHISFALYVDNRFPTLTVTSLHLVFMGVFPDQ
6351	1291	319	REARRTERESQLGRMLVVEVANGERSLVWGAQAVQALRERLGVGG RTVGCALPRGPRONSRLGLPLLLMPBEARLLAEIGAVTLVSAPRP DSRHSLALTSFKRQEESEFQEQSALAARARETRRQELLEKITB GQAQAKKLEQASGASSSQEAGSSQAAKEDETSQASGEQKEA GPSSSQAGPSNGVAPLPSALLVQLATARPVRPKARPLDWRVQS KDWPHAGRPAPHELRYSTYHDLWERGFFLSAAGKFGGDFLVYTPGD PLRFHAHYIAQCWAPKDTTLPQLDLVAGRLGTSVRKTLTLLCSPQ PDGKVVYTSQWASLQ
6352	235	923	WSEWLSFCHAAKCKGLSMLRITMKTRAISSLAADATEFVQGRSAP AMARSLVHDTVFYCLSVYQVKISPTPQLGAASSAEGHVGQAGP LMGNNPNEGNNHENGNNRDGGMIPEGGGGNQEPQPPQPPPEE PAQAAMEGEPENMQPRTTRTKFTLLQVEELESVFRHTQYPDVP TRRELAENLGVTEDKVRVWFKNKRARCRRHQREMLLANELRADP DDCVYIVVD
6353	65	672	RFAGAGATPEARARPDDVQAAREEKEMDLPDSASRVFCGRILSM VNTDDVNAIILAQKNMLDRFEKTNEMLNPNLSSARLQOMSER FLHTRTLVEMKRDLSIFRRIRTLKGLARQHPAPFISHIPEAS FLEBEDEDPIPPSTTTIATSEQSTGSCDTSPTVSPSLSPGFB DLSHVQGPSAINGRSQTDDEEMTGE
6354	965	510	PSLRPMETRDCLPLFGAFSAIIFMGAIOVSDLRFPVDPNQEVFC HPVTDQSLIVKLELQAHVGEAAARYHFDVGGVQGARAVHVE SVQPLSLENLALRGRCQEAWVLSGKQQLAKENQQVAKDVTLHQA LLRLPQYQTDLLITFNQPP
6355	158	1662	RGSSAAFRGSGLRGAMIRVLPFGMGRGLLTRRPGTRGGFSLD WDGVSEIKKKIKSILPGRSCDLLQDTSHLPPEHSDVVI VGGGV IGLSVAYNLKLESRRGAIRVLVVERDHTYSQASTGLSVGGICQ QFSLPENIQSLFSASFRLNINEYLAVVDAPPLDLRFNPSGYLL LASEKDAAMESNVKVQROEGAKVLSMSPQLRNKFPWINTGV ALASYGMEDEGWDPWCLLQGLRRKQVSLGVLFQCGEVTRFVSS SQRMLTDDKAVVLKRIHEVHVMDRSLEYQPVCAIVINAAGA WSAQIALAGVGBGPPGTQGTLPVEPRKRYVYVWHCPQGPGL ETPLVADTSGAYFRREGLSNYLGGSPTEQEEPPANLEVDHD PFQDKVWPHLALRVPAFETLKVQSAWAGYDYNTFDQNGVUGPH PLVVNMYFATGFSGHGLQAPGIGRAVAVMLKGRFQTDIDLSPF LTRFYLGEKIQENNI
6356	354	633	TGLTSSCLPLQVMMTKRTKDMGKFSSTVSTIDEERREIEAREV ADSYAQNQAVIEKQLERKGMKRRRLQELAELEAKKAKMKGLID NQFK

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6357	2	915	GLLRNMALLVRVIRNQTSTISQWVPVCSRLIPVSPTQGGDRALS RTSQNPQMSQSQACGGSEQLPGIDIQLNRKYHTRKLSSTTKDSP QPVEEKVGAFTKIIEAMGFTGPLKYSKNKIKIAALRNYTSCVEK TDFEEFFLRQMPDTFNSWFLITLLHVNMCLVRMKQEGRSKGYM CRIIVHFMWEDVQQRGRVMGVNPFYILKKNMILMTNHFYAILGY DEGILSDDHGLAAALWRTFENRKCEDPRHLELLVEYVRKQIQYL DSMNGEDLLLTGEVSWRPLVEKNPQSILKPHSPTYNDEGL
6358	2009	1040	ASDALHSLAPVLRLLSSRSAPRATMTQAIKFAKDFLAGGIAA AISKTAVERIERVKLLQLVQHASKQIAADKQYKGIQVDCIVRIK EQGVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIPLGGVDKHT QFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKSGTE REFRGLGDCLVKITKSDGIRGLYQGFVSQVGIITYRAAYFGVY DTAKGMLPDPKNTHTVSWMIAQTVTAVAGVVSYPPTVRRMM MQSGRKGADIMYGTGTVDCWRKIIPRDEGGKAPFKGAWSNVLRGMG GAFVLVLDELKKVI
6359	98	1086	VCRQEEKMKEDCLPSSHVPISDSKSIQKSELLGLLKTNYCYHE GKSFQLRHREBEGTLIEGLLNIAWGLRRPILQMQDDREQVHL PSTSWMPRRPSCPLKEPSQPNIGNITAGPSIQPVHKAESSTDS GPLEEAEAPQLMRTKSDASCMQRRPKCRAPGEAQRIRRHRS INGHPYNHKTSVFTPAYGSVTNVRVNSTMTTLQVLTLLLNKPRV EDGPFSEFALYIVHESGERTKLKDCBYPLISRIILHGPCBKRIARIF LMEADLGVEVPHEVAQYIKFEMPVLDSFVEKLEBEREIRIKLT MKPQALRLTMLQRLEQLVEAK
6360	1	345	GTRGAVPSTLEEVVLPFRSCRVFIHSGTMSKVSFKITLTS DP RLPYKVLSPPESTPFTAVLKFAEEFKVPAATSAITNDGIGIN PAQTAGNVFLKHGSELRIIPRDRVGSC
6361	615	158	RPGLGQLQHCALAPQAGNRRCRPHGRHLHAITRSTHRGKPM SIMQ PKDTLNTPLPDSSSPVAVPLGAPLAVASTLSVEHNDGVETGIWAC APGRWRRQITSQBFCFIQGRCTFTTDDGETLHIQAGDALMLPA NSTGINDIQETVRKTYVLIL
6362	350	1576	TTMDGSHSAALKLQQLPPTSSSSAVSEASFSYKENLIGALLAIF GHLVVSIAINLQKYCHIRLAGSKDPRAYFKTKTWLGLFLMLLG ELGVFASVAFAPLSLIVPLSAVSVIASAIIGIIFIXEKWKPKDF LRRYVLSFVGCGLAVVGTYLLTFAPNSHEKMTGENVTRHLSVW PFLYMLVRIILFCLLLYFYKBNANNIVVILLVALLGSM TVV TVKAVAGMLVLSIQGNLQLDYPIFYVMFVCMVATAVYQAAPLSQ ASQMYDSSLIASVGYLLSTTITAITAGAI FYLDFIGEDVLHICMF ALGCLIAFLGVFLITRNRKKIPFEPYISMDAMPGMNMHDKGM TVQPELKASFSYGALENNDNISEIYAPATLFPVMBEHSRSASG VPYRVLEHTKKR
6363	21	1201	RRTRLGSSFPRRRDSSAMESYDVIANQPVVIDNGSGVIRKAGFAG DQIPKYCFPNYVGRPKHVRVMAGALBGDIFIGPKAEHRGLLSI RYPMEHGIWKDWNMERIWQYVYSKDQLQTFSEHPVLLTEAPL NPRKNRERAAEVFFETFNVPALFISMQAVLSLYATGRTTGVLVD SGDGVTHAVPIYEGFAMPHSIMRIDAGRDVSRFLRLYLKKEGY DFHSSEFEIVKAIKERACYLSINPQKDETLETEKAQYLLPDGS TIEIGPSRFRAPELLFRPDLIGESRGIHEVLVFAIQKSDMDLR RTLFSNIVLSGGSTLFKGFCDRLLEVKKLAPKDVKIRISAPQK RLYSTWIGGSILASLDTFKMMVSKKEYEEDGARSIRKTF
6364	21	1201	RRTRLGSSFPRRRDSSAMESYDVIANQPVVIDNGSGVIRKAGFAG DQIPKYCFPNYVGRPKHVRVMAGALBGDIFIGPKAEHRGLLSI RYPMEHGIWKDWNMERIWQYVYSKDQLQTFSEHPVLLTEAPL NPRKNRERAAEVFFETFNVPALFISMQAVLSLYATGRTTGVLVD SGDGVTHAVPIYEGFAMPHSIMRIDAGRDVSRFLRLYLKKEGY DFHSSEFEIVKAIKERACYLSINPQKDETLETEKAQYLLPDGS TIEIGPSRFRAPELLFRPDLIGESRGIHEVLVFAIQKSDMDLR

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6365	234	1989	<p>RTLFSNIVLSGGSTLFGKFGDRLLSEVKLAPKDVKIRISAPQE RLYSTWIGGSILASLDTFKKMWVSKKEYEEDGARSIRHRTF</p> <p>KHKSRAACAARAQAFGPSRERREVRHSRFRSGLRRLGESNSGCCTM ASMGTLAFDEYGRPLIIKDQDRKSRLMGLEALKSHIMAAKAVA NTMRTSLGPNGLDKMVDKGDVTVTNDQATILSMDVDVHQIAK LMVLSKSQDDDEIGDGTGVVVLAGALLBEAQQLDRGIHPRI ADGYBQAARVAIEHLDKISDSVLVDIKDTEPLIQTAKTTLGSKV VNSCHROMAETIAVNAVLTVADMERRDVFELIKVEGKVGGRLED TKLIKGVIVDKDFSHPMQPKKVEDAKIALITCPPPEPKPKTKKH LDVTSVEDYKALQKYRKEKFERMIQKIKETGANLAIQWGFDE ANHLLQNNLPVVRWVGGEIETIAIATGGRIVPRFSELTAEKL GFAGLVQBSIFGTTKDKMLVIEQCKNSRAVTIPIRGGNKMIIE AKRSLHDLALCVIRNLIRDNRVVYGGGAETSCALAVSQEADKCP TLEQYAMRAPADALEVIMALSENSGMPNPTMTTEVRARQVKEM NPALGIDCLHKGSTNDMKQHVITLIGKKQQLSLATQMVRMILK IDDIRKPGSEEE</p>
6366	257	1898	<p>GNKEGAHSSTFWLLSIFLGAVAMLCKEQGITVLGLNAVFDIIV IGKPNVLEIVQKVLHDKSLENLGMRLNGGLFMTLLTSGGAG MLYVRWRIMGTGPPAPTEVDNPFASFADSMVRAVNNYYSINA WLLLCPPWLCFDWSMGCIPLIKISDWRVIALAALNFCILIGLIC QALCSEDGKHRLITLGLGLVIFPLPASNLFRVGFVVAERVL YLPSVGYCVLLTFFGALS KHTKKKLLIAAVVLGILFINTLRVC LRSGEWRSEEQLFPSALSVCPLNAKVHYNIGKNLADKGNQTAI RYREAVRLNPKYVHAMNNLGNILKERNLEQAEELSLAVQIQ PDFAAAMNNGLIVQNSLKRFAAEQSYRTATKHRRKYPDCYYNL GRLYADLNHRVDALNAWRNATVLKPEHSLAWNMMIILLDNITGNL AQAEAVGREALELIPNDHSLMPSLANVLGKSQKYKESEALFLKA IKANPNAAASYHGNLAVLYHRWGHLDLAKKHYESLQLDPTASGT KENYGLLRRLKBLMQKAV</p>
6367	287	1934	<p>SIGFPVMLVLSILLXTCMFQDSVAFEDVAVSFQTEEWALLDPS QKNLYRDVMQSTFXNLTSGVKTWKVQNIIDEYKNPRNLSLMRE KLCSKESHHCGESFNQIADDMNLRKTLPGITPCESSVCGEVGT GHSSLNTHIRADTGHKSSEYQYGRNPYRNKECKKAFSYLDSFQ SHDKACTKEKPYDGKECTETFIHSCIQRHRVMHSGDGPYKCKF CGKAFYFLNLCLIHRIHTGVKPYKCKQCGKAFTRSTTLPVHER THTGVNADECKECCGNAPFPSEIRRHKRSHTGKPYECKQCGKV FISFSSIQYHKMTHTGKPYECKQCGKAFRCGSHLQKHGRTHTG EKPYECCRQCGKAFRCSTDLQRHEKTHTEDKPYGCKQCGKGFRCASQLQIHERTHSGEKPHECKECCGVFKYFSSLRHRIHTHTGKPH ECKQCGKAFRYFSSSLHRIHTHTGDKPYECKKCGKAFRCSSSIR YHERTHTGKPYECKKCGKAFISNYIRYHERHTHTGKPYQCKQC GKAFIRASSCREHERHTINR</p>
6368	1	327	<p>RPVPAKLNRPSWRPTAGALPLRPPPLTMVFIIDEVETEDFQYDE DSEYFYFPCPGDNFSITKEDLENGEDVATCPSCLIKVIYDK DQFVCGETVPAPSANKELVKC</p>
6369	1	1745	<p>AGCCRDTRFPTPRGPGSLCHNFCRSAACTVTRTTHGSPREDTGT PRSREMMFQDSVAFEDVAVSFQTEEWALLDPSQKNLYRDVMQST FKNLTSGVKTWKVQNIIDEYKNPRNLSLMREKLCSKESHHC GFNFIADDMNLRKTLPGITPCESSVCGEVGTGHSSLNTHIRAD TGHKSSEYQYGRNPYRNKECKKAFSYLDSFQSHDKACTKEKPY DGKECTETFIHSCIQRHRVMHSGDGPYKCKFCKGAFYFLNLCL IHRIHTGVKPYKCKQCGKAFTRSTTLPVHERHTGVNADECKE CGNAFSPSEIRRHKRSHTGKPYECKQCGKVFISFSSIQYHKM THTGKPYECKQCGKAFRCGSHLQKHGRTHTGKPYECKQCGKA FRCSTDLQRHEKTHTEDKPYGCKQCGKGFRCASQLQIHERTHSG EKPHECKECCGVFKYFSSLRHRIHTHTGKPYECKQCGKAFRYF</p>

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			SSLHHERHTHTGDKPYECKVCGKAPTCSSTIRYHERHTHTGEKPY ECKKHCGKAFISNYIRYHERHTHTGEKPYQCKQCGKAFIRASSCRE HERHTHTNR
6370	1711	329	FVLSEQRLEKRTERTWPRSPGLGRGAAAAGARTAGAGLLRLLLGCG ALVGGRLRPVMTTPANAQNAKTWELSLYELHRTPOEAIMDGTG IAVSPRSLHSELMPICLDMLKNTMTTKECLHRFCSDCIVTALR SGNKBCPTCRKGLVSKRSLRPFDFDALISKIYPSREYKAHQD RVLIRLSRLHNQALSSSIEGLRMQAMHRAQVRVRPIPGSDQT TMSGGEGEPGEGEGEDVSSDSAPGPAPKRPBGCGGAGG SSVGTGGCGTGGVGGGAGSSEDGDRGGTLGGGTIGPPSPGAPS PPEPGGRIELVFRPHPLVERGEYCYTRYVKTGNATVDHLSKY LALRIALERQQQAGEPGGPGGGASDTGGPDGCGGEGGAGGG DGPEEPALPSLEGVSEKQYTTIYIAPGGGAFTTLNGSLTLELVNE KFWKVSRLPELCYAPTKDPK
6371	3	288	GVANMSTAMNFGTKSFQPRPPDKGSFPLDHLGECCKSFKEKFMKC LHNNNFNALCRKESKEYLECRMERZMLQBPLEKLGFGDLTSG KSEAAX
6372	2141	625	RVSATASEGKABERYKLEEDLLEKSFSLVKMPSLQPVVMCMKH LPKVPEKKLKLVMADKELYRACAVEVRRQINQDNOALFGDEVSP LLKQVILEKESALFSTELSVLHNFPSPKTRRQGEVVRQLTRM VGKNVKLYDMVLQFLRTFLTRNVHYCTLRLELMSLDLDVCG EICTVDPCHKFTWCLDACIRERFVDSKRARELQGFIDGVKKGQE QVLGDLMSILCDPFAINTLALSTVRHLQELVQETLPRDSPDLL LLRLLLALGQGAWMIDSQVFKEPKMEVELITRFLPMLMSFLVD DYTFNVQQLPABEKAPVSYPTLPESFTKFLQEQRMACEVGLY YVLHITKQKNKALLRLPLGLVETPGDLAFGDIFFLLHLLGNLAL LADEPALEDFCSSLPDGPFLTASPRKENVHRHALRLIHLHPRV APSKLEALQKALEPTGQSGEAVKELYSQLEKLEQLDHRKPSPA QAAETPALSLPLSPVAPAPL
6373	67	711	PSRAARASPARLZAMVSWIISRLVVLIFGTLYPAYYSYKAVKEK DIKEYVKMMYWIIFALFTTAETFTDIFLCWPPFFYELKIAFVA WLLSPYTKGSSLLYRKFPVHTLSSEKEIDDCLVQAKDRSYDAL VHFGKRLNVAATAAVMAASKGQALSERLSFSMODLTTIRGD GAPAPSGPPPPGSGRASGKHGQPKMSRSASESASSSGTA
6374	535	2105	HKLFCSYISTSEPPSSSTRHSCPTHTFCNYTSSTIFLSSTRDHS CPTHTFCNYTSSTIFLSSTRDHSCTHTSCNYTSSTIFLSSTRD HSCPTHTSCNYTSSTIFLSSTRDHSCTHTFCNYPRPIRLSSC CPABLQTEGSGNGKKEVLSGFQVLEDTVLPFEGCGQPDDRGTIN DISVLVRTRRGEQADHFTQTPIDPGSQVLVRVDWERRFDHMQQH SQHLITAVADHLFKLKTTSWELGRPSAIEIDTPSMTAEQVAA IEQSVNEKIRDRLPVNVRELSLDDPEVEQVSGRGLPDDHAGP IRVNIIGVDSNMCCGTHVSNLSLQVILKLGTEKGGKKNRNLIFL SGNRVLKWMERSHGTEKALTALKGGAEDHVEAVKKIQNSTKIL QKNNLNLRLDLAVHIAHSLRNSPDWGGVVILHRKEGDSEFMNII ANEIGSEETLLFLTUGDEKGGFLLAGPPASVETLGPVAVVL EGKGAGKGRPGQKATMSRRMEQAQLLDYISTQSAKE
6375	1	1535	AIMAAATRPVRLPEAGCEGRERCWNPSSRSRSHSGEGGLAASRT CPGRPRRPGQVVRGPTMLVTAFLAVGLLASCIGLELSRCRAK PPGRACSNPSFLRFQLDYFQVYFLAALADNLQAPLYLYKLYQHYY FLEGQIALLYVCGLASTVLFGLVASSLVVDWLGRKNSCVLFSLT SLCCLTKLSQDYFVLLVGRALGGLSTALLFSAFRWYIHEHVER HDFPAEWIPATFARAAPNHNHVLAVAGVAEAVASWIGLGPVAP FVAIPLIALAGALARNNGENYDRQAFSRTCAGGLRCLLSDR RVLLGTIQLFESVPIFVPLWTPVLDPHGAPLGIIFSSFMAA SLGSSLYRIATSKRYHLQPMHLLSLAVLIIVFSLFMTFTSTSP QGESFVBSFIAPLLIELACGLYPPSMSFLRRKVIPETEQAGVLN

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			WFRVPLHSLACLGLLVLDSDRKTGTRNMFSCSAVMVMALLAV VGLFTVVRHDAELRVPSPTEPYAPEL
6376	380	1437	ISSTDIDHYRFSFLVNSKMPKESWSGRKTNRAAVHKSQKBGRQ QDLLIALGMLKLGSPKSSVTIWQLKLFAYSQSLTVRRATLKE NEQIPKYEKIHNFVKVHTFRGPHWCEYCANFMWGLIAQGVKADC GLNVHKQCSKMPNDCKPDLKHVKVYSCDLTTLVKAHTTKRPM VVMCIREIESRGLNSEGLYRVSGFSDLIEDVKMAFDGDKAD ISVNMVEDINIITGALKLYFRDLPIPLITYDAYPKPIESAKIMD PDEQLETLHEALKLPPANCETLRYLMAHLKRVTLHEKENLMNA ENLGIVFGPTLMRSPELDAMAALNDIRYQRLVVELLIKNEDILF
6377	2311	1845	SRIRRRSSRRPREPPGSPRRRRRRRDPRTMPSEKTFKQRTTFE QRVEDVRLIRBOHPTKIPVIIEYKGEKQLPVLDTKFLVDPHV NMSELIKIRRRQLNANQAFFLLVNGHSMVSVSTPISEVYESE KDEGGFLYMYASQETFGMKLSV
6378	686	191	GAGFWAEAFDGTGRSRRARLPQYKRPPGRVGGGDSGRNMAVA DLALIPDVIDSDGVFKYVLIRVHSAPRSGAPAAESKEIVRGYK WARYHADYIDKVSQDMQKQGCCECLGGGRISHQSQDKKIHVYG YSMAYGPAQHAISTEKIKAKYPDYEVTWANDGY
6379	35	378	BRAGSPSPSRAALRRCAPQRSQAPRWPDRAACRRSFQGSQGRAY LFNSVVNVGCGPABERVLLTGLHAVADIYCENCKTTLGWKYBHA FESSQKYKGGYIIELAHMIKONGWD
6380	1414	462	PAVQGGQRGAGPPTGRSGNMAFALTIVRHGETRFNKEKTIQGG GVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLMTKQTMHGI LERSKFKCKDMTVKYDSRLRERKYGVVEGKALSELAMAKAAREE CPVFTPPGGETLDQVMRGIDFFELCQLILKEADQKEQFSQS PSNCLTSLAEIIFPLGNHSSKVNDSGIPGLAASVLVSHGAY MRSLFDYFLTDKCSLPATLSRSELSMTPTNTGMSLFIINFERG REVKPTVQCICMNLQDHLNGLTENSLGLNLPKSNHFEPLKGPV LALFTSLLC
6381	1668	218	AVVRAQGSRCFSGACWRPQAAAMNFSEVFKLSLLCKFSPDGK YLASCQYRLVVRDVNTLQILQLYTCLDQIQHIENSADSLFILC AMYKRGVLVQVWSLEQPBWHCKIDEGSAGLVASCWSPDGRHILNT TEPHLRITVWSLCTKSVSYIKYKACLQGITPTRDRYMALEAER RDCKDYVSIFVCSQDWQLLRHFDTDQDLTGIBWAPNGCVLAVWD TCLEYKILLYSLDGRLLSTYSAYEWSLGLKSVANSPPSQFLAVG SYDGKVRILNHVTWKMITFPGHPAAINDPKIVVYKEAKSPQLG LGCLSFPPPRAGAGPLPSSSEKYEIASVPSLQTLKPVTDRAVP KIGIGMLAFSPDSYFLATRNDNIPNAVWMDIQKRLFAVLEQL SPVRAFQWDPQQRILAICTGGSRLYLWSPAGCMSVQVPGEGDFA VLSLCWHLSGDSMALLSKDHFCLCFLETAUVGTACRQLGGHT
6382	2	1062	PREDEDRNLCLTAYPLKGDHGIVDIVDSDCEPKSLLRWTTNK KHHVLETKTPKDWVRQHRKEKMKSHKLEEFEWLKKSEVLYY TVEKKGNISSQLKHYNPWSMKCHQQQLQRMKENAKHRNQYKFI LENLTSRYEVPCLDLKMGTRQHGDDASEEKAANQIRKQOSTS AVIGVRVCGMQVYQAGSQQLMFMNKYHGRKLSVQGFKEALFQPF HNGRYLRRELLGPVLKKLTELKAVLERQESYRFYSSSLVITYDG KERPEVVLDSDAEDLEDLSESADESAAGAYAKPIGASSVDVVM IDFAHTTCRLYGEDTVVHRGQDAGYIFGLQSLIDIVTEISEESG E
6383	3159	1061	SPAPGRPSPHGSQPAARAAAAPAMPSAKQRGSKGGHGAASPSEK GAHPSAARPLAAPTAPACRSPPSGGAPASFPGRAPRSLASQP AARAAAAPAMPSAKQRGSKGGHGAASPSEKGAHPSGGADDVAKK PPAPQPPPPPPAPHPQHPQHPQHPQHPQHPQHPQHPQHPQHPQ SSSSASAAAAAASSASCSRLGRALNLFYLAALVAAAAFS GWCVIHVLEEVQVRRSHQDFSRQREELGQGLQGVQKVSLOA TFGTFFESILRSSQHKQDLTEKAVKQGESEVSRISEVLQKLQNEI

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			LKDLSDGIHVVDARERDFTSLENTVRRRLTELTKSINDNIAIF TEVQKR SQKEINDMKAKVASLEESEGNKQDLKALKEAVKEIQTS AKSRWDMEALRSTLQTMSDIYTEVRRLVS LKQBQAAPKEAAD TERIALQALTEKLLRSSESRLPEEIRLRLEELROLKSDSHGP KEDGGFRHSEAFRALQOKSQGLDSRLQHVEDGVLSMQVASART ESLESLLSKSQEBEQRLAALQGRLEG LGSSSEADQDGLASTVRSI GETQLVLVYGDVEHLKRSVGRLPSTVESLQKVQEQQVHTLLSQDDA QAARLP PQDFLDRLLSLDNLKASVSQVEADLKMLRTAVDSLVAI SVKIETENNNLSEARGLLLDLRLNDLRLFPVKVEIKHEKV
6384	738	1904	IWEVVCILTHLHLQOANQLPLPPSSSINEEDADEANRAIGEKR AAPDSGKKPKTPKTQKQKPNEPQKPVSAAYLFPRDTQAAIKCQ NP NATTFGEVQSIVASMWDSLGEGBQKVYKRRTAAAKBYLKALA AYRASLVSKAAESAQAQTRISVQQTLLATNLTSLLLTPLSQ HGTVSASPQTLLQSQLPRSIAPKPLTMRLPMNQIVT SVTIAANMP SNIGAPIISSMGTTMVGSAPSTQVSPSVQTQOHQMQLQQQQQQQ QQM QMQQQQLQHQHMHQIQQQMQQQFQHMQHMQHLQQQQH LQQQINQQQLQQQLQORLQLQQLQHMHQHSQSPSPRHSPVASQI TSPIPAIGSPQPASQQHQSQTQSQTQTQVLSQVSI
6385	2	1584	PRVRAADVAGAQAVVEAGMAKSNGENGRAPAAGRESLGSTRS LAQGPDAAATTDELSSLGSDSEANGFAERRIDKFGFI VSGQABG ALREVP LHVLRQRESKWLDMLNNWDKWMMAKHKKIRLCQKGIP PSLRGRAWQYLSGGKVKLQONPGKFDELDMS PGDPKWLDVIER LHRQFFEHMFVSRRGGHQDDLFRVLKAYTLRYREPBGYCAQAP IAAVLLMHMPAEQAFWCLVQICEKYLPGYSEKLEAIQLDGEIL PSLLQKQVSPVAHKHLSRQKIDPELLYMTWFMCAPSRTL PWSSVL RVWDMFFCBGVKII FRVLGLVLLKHALGPSPEKVACQGOYETIER LRSLSPKIMQBAFLVQEVVELEVPTERTQIEREHLIQLRRWQETRG BLQC RSPPRLHGAKAILDAEPGRP PALQSPSIRLPIDAPLP GS KAKPKPKQAQKQRKMKGRGQLEKPPAPNQAMVVAAGDACP POHVPPKDSAPKDSAPQDLAPQVSAHRSQESLTSQESSEDITYL
6386	819	195	TVCGSFYLGIMQASRLKRELHMLATEPPP GITCWQDKQMDDL RAQILGGANTPYEGKVFLEVII PERYPPEPPQIREFLTPIYHPN IDSAGRICLDVLLKPPGAWRP SINIATVLTS IQLL MSEPNPDD PLMADISSEFKYNKPAFLKNARQWTEKHARQKQKADEEMLDNL PEZGERVINSTQKRKASQLVGIEKKFHPDV
6387	1	662	PGPTHASADAWADAWAQPNMAMHNKAAPPQIPDTRRELAE LVKR KQELAETLANLERQIYA FEGSYLEDTQMYGNI IRGWORYLTNQ NSNSKNDRNRNKFKEAERLPSKSSVTSA AAVSALAGVQDQLEK RPPGSGTESDTS PDPHNQENEPSQEDPEDLDG SVQGVKPKAAS STSSGSHSSHKKRNKNRHS PSGMFDYDFEIDLKLNKKPRADY
6388	1	662	PGPTHASADAWADAWAQPNMAMHNKAAPPQIPDTRRELAE LVKR KQELAETLANLERQIYA FEGSYLEDTQMYGNI IRGWORYLTNQ NSNSKNDRNRNKFKEAERLPSKSSVTSA AAVSALAGVQDQLEK RPPGSGTESDTS PDPHNQENEPSQEDPEDLDG SVQGVKPKAAS STSSGSHSSHKKRNKNRHS PSGMFDYDFEIDLKLNKKPRADY
6389	1074	497	AEPGDRMAGHRLVLVLGLDHIPHRCNSLP AKFKKLLVPKIQHI LCTGNLCTRESYDYLLKLAGDVHIVRGDFDENLYNYPEQKVVTVG QPKIGLIHGQVIPWGDMASLALLORQFDV DI ISGHTHKFEAF EHENKFY INPGSATGAYNALETNI IPSFVLMDIQASTVVTVVYQ LIGDDVKVERIEYKPK
6390	158	535	GEERKEGRAPGKAFAPERNP AKMEKEKETTREL LLPNWQSGSCHG LTTAQRDDGVFVQEVTONSPAARTGVVKBGDQIVGATIYFDNLQ SGEVTQ LLNTMGHHTVGLKLHRKGRFPFSLGQTWDP
6391	5386	2897	VRWSKTECYLSIQTQENFPANLNELVN CIVISSLVTTQRKLKA MSLLGSRNQLARAVLNNPMDFTCKOLLTTT SERIIAYLRDFNE DQKKAETAYAMVKHSPSVAKICLIHGPPGTGKSKTI VGLLYRL

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			LTENQRKGHSDESNNAKIKQNRVLVCAPSNAVDELMKKIILEF KECKDKKNPLGNCGDINLVRLGPEKINSSEVLKFSILDSQVNRH MKKELPSHVQAMHKKKEFLDYQLDELRSQRALCRGGREIQRQEL DENISKVSKERQELASKIKKQGRPKQTSIIILESHIICCTLS TSGGLLLESAFRGQGGVFPSCVIVDEAGQSCIEITLTPLIHRCN KLILVGDPKQLPPTVISMKAQYGYDQSMARFCRLLEENVEHN MISRLPILQLTVQYRMHPDCLFPNRYVYNNRLKTNRQTEAIRC SSDWFPQPYLVFDVGDGSERRDNDYINVQEIKLVMETIKLIK KRKDVSPFNIGIITHYKAQKIMIQKDLDBFDRKGPAEVDITVDA FQGRQKDCVIVTCVRANSIQSGIFLASIQRLNVTTIRAKYSLF ILGHLRTLMENQHNQLIQDAQKRGAIKTCDKNYRHDVAKILK LKPVLQRSLSHTPPTIAPEGSRPQGGPSSKLDGSGFAKTSVAASL YHTPSDSKEITLTVTSKDPERPPVHDQLQDPRLKRMGIEVKGK IFLWDPQSSPOHPGATPTGEPGFVPHQDLSHVQQPAAVVAA LSSHKPPVRGPPAASPEASTQSKCDDPEBELCHREARAFSE GRQEKCGSETHTRRNSRNDKRTLEQEDSSSKKRKLL
6392	972	186	GRIGVDLASSMAHRLQIRLLTVDVKOTLLRLRHLGRAYATKAR AHGLEVEPSALEQGFQAYRAQSHSFPNYGLSHGLTSRQWLDV VLQTFHLAGVQDAQAVPIAEQLYKDFSPCTQVLDGAEDTLR ECRTGRGLRLAVISNFDRLLEGILGGLGLRHPDFVLTSEAAGWP KDPDPRIQEAALRLAHMEPVVAHVGDNYLCDYQGPRAVGMHSFL VVGFPALDPVVRDSVPKEHILPSLAHLPLALDCLEGSTPGL
6393	2017	730	TGGSKMAAVATCGSVAASTGSAVATASKSNVTSFQRRGPRASVT NDSGPRLVSIAGTRPSVRNGQLLVSTGLPALDQLGGGLAVGT LLIEEDKYNIIYSPLLFKYFLAEGIVNGHTLLVASAKEDPANILQ ELPAPLLDDCKCKEFDEVDVNHKTPESNIKMKIAWRYQLLPKME IGPVSSSRFGHYVDASKRMPQELIEASNWHGFFLPEKISSTLRV EPCSLTPGYTKLLQFIQNIIVREGFDGSNPFQKQORNILRIGIQN LGSPLWDDICCAENGGNSHSLTKFLYVLRGLLRSTLSACITM PTHLIQNKAILARVTTLSDDVVGLSEFIGSERETNPLYKDYHGL IHRQIPRLNNLICDESDVKDLAFKLKRKLTIERLHLPDPLSD TVSRSSKMDLAESAKRLGPGCGMMAGGKKHLLDF
6394	1418	511	GAAGGEGARRRPAAMATVMAATAERAVLEBEPRWLLHDEVHA VLKQLQDILKEASLRFTLPSCGTECPAKQENFILGSCGTDQVKG VLTLOGDALSQADVNLKMPRNNQLLHPAFREDKQWKLQIQDAR NHVSQAIYLLTSRDQSYQFKTGAELKLMDAVMLQLTRARNRLT TPATLTLPEIAASGLTRMFAPALPSDLLVNVYINLNKLCITVYQ LHALQPNSTKNFRPAGGAVLHSPGAMFEWGSORLEVSHVKVEEC VIPWLNDAVLYFTVSLQCLQKDKISVFSSYWSYRPF
6395	13	658	PSGRPTRPLCCAARRGAARHGGSVSGWPAGRTPPTETSNPGSSVM ESVTFEDVAVEFIQEWALLDSARRSLCKYRMLDQCRTLASRGTP PCKPSCVSQLGQRAEPATERGILRATGVAWESQLKPEELPSMQ DLLEASSRDMQMGPGLEFLRMQLVPSIEBERETPLTREDRPAQES PPWSLGCTGLKAAMQIQRVVIPPVTLGHRNPWVARDSGE
6396	1	1221	ANILSSPSKRQKGTLLIGYSEPTFLYNNFMGDAFQHSQSIPRF IKESLKQILEESDSRQIFYFLCLNLLFTFVELFYGLVLTNSIGLI SDGFHMLFDCSALVMGLFAALMSRWKATRIFSYGYGRIEILSGF INGLFLIVIAFFVFMESVARLIDPPELDTHMLTPVSVGGLIVNL IGICAFSHASHAHGASQGSCHSSDHS SHHMHGSHDHGHGSH GSAGGMNANMRGVFLHVLADTLGSGIVSTVLIEQFGWFIAD PLCSLFIAILIFLSVVPLIKDACQVLLRLPPEYEKELHIALEK IQKIEGLISYRDPHFWRHSASIVAGTIHIQVTSVDLEQRIVQVQV TGILKDAGVNNLTIQVEKEAYFQHMSGLSTGTFHDVLAMTKQMES MKYCKDGTIIM
6397	391	122	GAGGVGRFEAIRAPARMIEVVCNDRIGKKVRVKCNTDDTIGDLK KLIAAQGTWNKIVLKKWYTIKFDHVSIGDYEIHDGMNLELYY

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6398	353	1306	<p>HRQMGPLINRCKKILLPTTVPATMRIWLLGGLLPFLLLSGLQ RPTGSEVAIKIDPDPAPGSFDDQYQGCSSQVMEKLTQGDYFTK DIEAQKNYPRMWQKAHLAWLNQKVLPONMTHAVAILFYTLN SNVHSDFTRAMASVARTPQQYRSPHPKYLHYLTSAIQLLRKD SIMENGTLCEVHYRTKDVHFNAYTGATIRFGQFLSTSLKSEA QBFNGQTLPTIPTCLGAPVQYPSLKKEVLIPPYELFKVINMSYH PRGDWLQLRSTGNLSTYNCQLLKASSKKCIPDPIALASLSPLTS VIIIFSKSRV</p>
6399	75	1245	<p>PNLETYFGRRCCKDSMNFTPTHTPVCRKRTVVSXRGVAVSGPTK RRGMADSLSTPLPSPEDRLAKLHPSKELLEYVQKKMARCEAEN EDLLKLELYKEACEGQHKLECDLQOREEBIABLQKALSDMQVC LFQEREHLRLYSENDRLRIRLEDKKIKQNLALVGTADAGEVT YFCKEPHPKVTILQKTIQAVGCEQSESSAFKADPKLSKRPSR ERKESSEHYQORDIQTLLQVEALQAQIGEQTKLSREQIEGLIED RRHLEETIQVQHORNQNKIKELTKNLHHTQELLYESTKDFLQLR SENQNKESWMLKDNLSKIKQYRVQCKKEDKIGKVLPMVMB SHHAQSEYIKVMSLCRNEVVYFSGRVEGIPKQLQFVM</p>
6400	2520	1053	<p>KTWKCEDEVYEVQSAILRHNCGYAMTKGKPFHNLMERKDFETWL DNISVTFSLTDLQKNETLDHILISLQAVQLRHLSNNLETLLKR DPLKLLPLELSFYLLKWLDPQTLTCLVSKQWNVISACTEVW QTACKNLGNQIDDSVQDALHKKVYLKAILRMKQLEDHEAFETS SLIGH SARVYALYYKDLLCTGSDDLAKLWDVSTGQCVCYGIQT HTCAAVKFDEQKLVGTGSFNTVACWESSGARTQHFRGHTGAVF SVDYNDELDIIVSGSADFTVKVWALSAGTCLNTLTGHTWVTKV VLQCKVKSLHSPGDYILLADKYEIKIWPIGREINCKCLKTL SVSEDRSICLQPRHFDGKYIVCSSALGLYQWDFASYDILRVIK TPEIANLALLGPGDI FALLFDNRVLYIMDLRTSLISRWPLPEY RKSRRGSSPLAGEASWNLGLDGHNDTGLVFTATMPDHSIHLVLW KEHG</p>
6401	109	766	<p>PGAANSRDLRGCCCTGPPALRMLVLPSPCPQPLAFSSVETMEG PPRRTCSRPEPGPSSSIGSPQASSPPRPNHYLLIDTQGVPTVL VDEESQREPGASGAPGQKKCYSCPVCSSRVFYMSYLQRHSITHS EVKPFECDCGKAFKRASHLARHHSIHLAGGGRPHGCPLCPRRF RDAGBLAQHSRVHSGERPQCPCPRRFMEQNTLQKHTRWKHP</p>
6402	1196	279	<p>TTSCCGGIRQSSAIPVASMFAATCLRNALLLPKQQDPKQRN GAKNSNLGGNTESSESSETCSSKSHDGDKFTIPAPSSPLRKQE LENLKCSILACSAVALALGDNLMALNHADKLLQPKLSGSLKF LGHLYAAEALISLDRISDAITHLNPNENVTDVSLGSSNEQDQGS DKGENEAMESSGKRAPQCYPSVNSARTVMLFNLGSAYCLRSEY DKARKCLHQASMIHPKEVPPRAILLAVYLELQNGNTQLALQII KRNQLLPAVKTHSEVRKKPVFPVHPIQPIQMPAFTTVQRK</p>
6403	2	1690	<p>RGIHTSVLQGNLQNMYSHNVMNINLNLTOVQORNLTINLQ RSVDDTSQAIQRIKNDPQNLQQVFLQAKKDTDWLKEKVSQSLQTL AANNSALAKANNDTLEDNNSQLNSFTGQMENTTISQANEQNLK DLQDLHKDAENRTAIKPNQLEERFQLFETDIVNIISNISTAHH LRTLSTNLNEVRTCTDTLTKHTDDLTSLNNTLANIRLDSVSLR MQQDLMSRLDTEVANLSVIMREMKLVDKSHGQLIRNFTILQGP PGPRGPRGDRGSGQPGPTGNKGQKGEKGEPPGPPAGERGPIG PAGPPGERGGKSGSGSGPKGSRGSPGKPGPGPGSGDEGPPGPG GKEGLPGPGPGPGFQGLQGTVGEPGVGPRCLPGLPGVPGMPCP KGPPPGPPGPGAVVPLALQNEPTAPEDNSCPPHWKNFTDKCY FSVEKKIFEDAKLFCEDKSSHLVFINTREEQQWIKKQMVGRESH WIGLTDSERENKWLDTSPDYKNWKAGQPDNWHGHGHPGEDC AGLIYAGQWNDPQCEDVNNFICBKDRETVLSSAL</p>
6404	1012	222	<p>AAALAMAPAPGLISVFSSSQBLGAALQALVAQRAACCLAGARA</p>

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			RFALGLSGSLVSMRLARELPAAVAPAGPASLARWTLGFCDERLV PFDHAESTYGLYRTHLLSRLPIPEQVITINPELPVEEAARDYA KKLRQAFQGDGIPVFDLLILGVGPDGHTCSLFPDHPILQERREKI VAPISDSPKPPPPQRTVTLTFLVLAARTVIFVATGEGKAVALKRI LEDQEEENPLPAALVQPHGTGKLCNPLDRAAARLLTVPPFEKHSPL
6405	1	1456	AALPRPTPRAPLQREGTGSDEMAASMFYGRVLAVATLRNHRPR TAQRAAAQVLGSSGLFNNHGLQVQQQQQRNLSLHEYMSMELLQ AGVSVPKGYVAKSPDEAYALAKKLGSKDVVIAQVLAGGRCKGT FESGLKGGVKIVFSPREAKAVSSQMIGKKLFTKQTGEKGRICNQ VLVCERKYPREYYFAITMERSFQGPVLIGSSHGGVNIEDVAAB TPEATIKEPIDIEEGIKKEQALQLAKMGFPNNIVBSAAENMVK LYSLFLKYDATMIBINPMVEDSDGAVLCMDAKINFDSNSAYRQK KIPDLQDWTQEDERDKAAKANLNYIGLDGNIGCLVNGAGLAMA TMDIILKHGGTPANFLDVGGAATVHQVTEAFKLITSDKKVLAIL VNIFGGIMRCDVIAQGI VMAVKDLEIKIPVVVRLQGRVDDKA LIADSGLKILACDDLDAAARMVVKLSKIVTLAKQAHVDVKFQLP I
6406	1036	167	HPRQMRGEDITPEAPPYSSGRYDSIKTEVSGCPEDLTVGRAPTAD DDDDDDHDDHNDKMDNDSEGMDPERLKAFNMFFVRLFVDENLDRM VPISKQPKKEIKQAIIRSCSRQFPFQERARKRIRTYLKSCHRMK KNGMEMTRPTPHLTSAEAENILAAACESETRKAARKMRLEIYQ SSQDEPIALDKQHSRDSAAITHSTYSLPASSYSQDPVYANGGLN YSYRGYGALSSNLQFPASLQTNHNGESGEARALASRPAPSWV CRAALGSGMGRGKQRPVMERGCLTA
6407	492	150	VGLCLAVSQTVLAQLDALLVFPQQAQLSCTLSPOHVTIRDYGV SWYQORAGSAPRYLLYYRSEEDHHRPADIPDRFSAKDEAHNAC VLTISPVPQREDDADYYCSVGYGFSP
6408	1458	903	RGGITSSQAWRLFGGVTRGFNMRIKCYFCSGPIYPGHGMFVR NDCKVFRFCCKSKCHKNFKKKRNPRKVRWTKAFKKAAGKELTVDN SFEFEKRRNEPIKYQRELWNKTIDAMKRVBEIKQKQAKFIMNR LKKNKELQKVQDIKEVKQNIHLIRAPLAGKQQLREKMWQQLQE DVMEDAP
6409	150	446	NTALANLLRCFTCDRLCGGCTAPAPPAHQGIVLQPVMPSCDPGP GPACLPKTKTFRSYLPRCHRTYSVCHRAHLAKHDELISKSFQGS HGRAYLFNSV
6410	85	607	RGGTAGCVACLGCWQSSSPKAAPFAGSACLPADESCPCLLFQAC AISGLFNCITIHPLNIAAGVMMINAFILLCEAPFCCQFIEFA NTVAEKVDRLRSWQKAVEYCGMAVVPVIVISLTLTLGNAIAPA TGVLVGLSALCKKGDASISYARIQQQRQQADEKLAETLBQEL
6411	302	772	RLSIMASSLNEDEGSRTITYVKGDLFACPKTDSLACISEDCRM GAGIAVLFKKKPGGVQELLNQOKKSSEVAVLKRDGRYIYYLITK KRASHKPTYENLQKSLBAMKSHCLNGVTDLSMPRIGCGLDRLQ WENVSAMIEEVFEATDIKITVYTL
6412	61	1709	RPVTSFSPPLPGSCGRLGTRTMLGRSLREVSAAALKQCGITPTTEL CQKCLSLIKTKFLNAYITVSEVALKQAESEKRYKNGQSLGD LDGIPIAVKONFSTSGIETTCAENMLKGYIPPNATVVQKLLDQ GALLMGKTNLDBFAMGSGSTDGVEGFPVKNPNSYSKYREKRRQN PHSENEEDSWLITGGSSGGSSAAVSAFTCYAALGSDTGGSTRNP AAHCGLVGFKPSYGLVSRHGLIPLVNSMDVPGILTRCVDAAIV LGALAGDPDRDSTTVHEPINKPFMLPSLADVSKLCIGIPKEYLV PELSSEVQSLMSKAADLFSEGAKEVIEVSLPHTSYSIVCYHVL TSEVASNMARFDGLQYGHRCIDVSTEAMYAATREGEFNDVVRG RILSGNFFLLKENYENYFVKAQKVRRLIANDFVNANFNSGVDVLL TPTTLSEAVPYLEFIKEDNRTRSAQDDIFTQAVNMAGLPAVSIP VALSNQGLPIGLQFIGRAFCDQQLLTVAKWFKEQVQFPVIOQLQE LMDDCSAVLENBKLASVSLKQ

[illegible]

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6421	1844	362	FAPMYGGFPVKLRTYLGDPFIPYDPQITAEELAEKTKNAVQALID KHQRIPIGNIMSALLERFH WALSLRRQPERMSNKLSPHPSVVLRSSEFKMASSPAVLRASRL YQWLSLKSSAQFLGSPQLRQVGQIIRVPRMAATLILEPAGRCW DEPVRIAVRGLAPEQPVTLRASLRDEKGALEFQAHARYRADTLGE LDLEAPALGGSFAGLEPMGLLWALEPEKPLVRLVKRDVRTPLA VELEVLGDHDPDGRLLCQTRHERYFLPPGVRRBPVRVGRVGRST LFLPEPEPGPPGIVDMFGTGGGLLEVRASLLAGKGFVVMALAY NYEDLPKTMETLHLHYFERAMNYLLSHPEVKGGVGLLGISKGG ELCLSMASFLKGITAAVINGSVANVGGTLRYKGETLPPVGVNR NRIKVTKDGYADIVDLNSPLEGPDQKSFIPVERAESTFLFLVG QDDHNWKSEFYANBACKRLQAHGRRKPQIICYPETGHYIEPPYF FLCRASLHALVGSPIIWGGEPRAHAMAQVDANKQLQTFPHKHIG GREGTIPSKV
6422	181	2133	EGENLSWFQEFWDIAKEFYWKTPCPGPFLERYNFDVTKGKIFIE WMKGATTNICYNVLDRNVHEKLGDKVAFYWEQNEPGETTQITY HQLLVQVCQPSNVLRKQGIHKGDRVAIYMPIMPELVVAMLACAR IGAHLSIVFAGFSSSLCERILDSCLLITTDIFYRGEKLVNL KELADEALQKQKQKGFPPVRCIVVKHLGRAELGMDSTSQSPPI KRSCPDVQISWNGIDLWHELMQEADECEPENCDAEDPLFIL YTSGSTGKPGVHTVGGYMLYVATTFKYVPDFHAEVDFWCTAD IGWITGHSYVYTGPLANGATSVLFGIPTYPDVNRLWSIVDKYK VTKFYTAFTAIRLLMKFGDEPVTKHSRASLQVLGTVEGPINPEA WLWYHRVVGARCPVDTFWQETGTGCHMLTPLPGATPMKPGSAT PFPFGVAPAILNESGEELGEAEGLVFKQFPWPGIMRTVYGNHE RPEFTYFKKPGYVYTGDCQQRDQGYWYITGRIDDMNVSGHL LSTAEEVESALVEHEAFAAAGVGHPPVKGECYCFVTLCDGHT FSPKLTBELKKQIREKIGPIATPDYIQNAPGLPKTRSGKIMRRV LRKTAQNDHDLGDMSTVADPSVISHLFSHRCLTIQ
6423	614	1237	ANLKEIPRDLPPETVLLYLSNQITSIPNETFKDLHQLRVLNLS KNGIEFIDRHAFKGVATLQTLDSNRISVHKNAFNNLKARA RIANNPWHCDCCTLQVLRSMASHETAHNVICTSVLDEHAGRP FLNAANDADLCNLPKKTTDYAMLVTMFCWFTMVISYVYVYVRQN QEDARRHLEYLKSLSRQKKADEPDISTVV
6424	1	1188	KKVSWPVAAMVHCSCVLFRKYGNFIDKLRLKTRGGSGCMGYPR LGGGGKGGDVVVAHNMTLKQLKDRYPRKRFVAGVGANSKISA LKGSKGKDWBIFFVPVGISVTDENGKIIGELNKENDRILVAQGGL GGKLLTNFLPLKGQKRIIHLDLKLADVGLVGFNAGKSSLLSC VSHAKPATADYAFITLKPGLGKIMYSDFKQISVADLPGLIEGAH MNKGMGHKPLKHIERTRQLLFVVDISGFQLSSHTQYRTAFETII LLTKELRLYKEELQTKPALLAVNMMDLPDAQDKFHELMSQLQNP KDFLHLFEKNMIPERTVEFQHIIPISAVTGEIEELKNCIRKSL DBQANQENDALHKKQLNLNLSIDTMSSTEPSPSKHAVITSKMDII
6425	1850	1144	LAMEGGGGIPLLETLKESQSRHVLPAFSEVNSLQKSNWGFLLTG LVGGTLVAVYAVATPFVTPALRKVCLEFVDPATMKQIENVVKMLR CRRGSLVDIGSDGRIVIAAAKGFATVGYELNPWLWVYSRYRA WRBGVHGSAKFYISDLWKVTFQSYSNVVIFGVPMMLQLEKKLE RELEDDARVIACRFPPPHWTPDHVTGEGIDTVWAYDASTPFGRE KRPCSMHFQLEPIQA
6426	30	565	SRGAAVGGMVSAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRR LHAEFABERDWRQFHQPRNLLALVGEVGELELAFQNKTDGEPG PQGWSPREAALQEELSDVLIYLVALAARCRVDLPLAVLSKMDI NRRRYPAHLARSSSRKYTELPHGAISEDQAVGPADIPCDSTGQT ST
6427	145	959	AASWGPPHVPKAGKMVSNMICRLVVLVFGMLCPAYASYKAVKTK NIREYVRNMWYIVFALFMAAEIVTDIFISWFPFYIEIKMAFVL

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			WLLSPYTKGASLLYRKFFVHPSLSRHEKEIDAYIVQAKERSYETV LSFGKRGLNIAASAAVQAATKSGQALAGRLRSFSMQDLRSISDA PAPAYHDPLYLEDQVSHRRPPIGYRAGGLQSDTEDECNSDTEA VPRAPARPREKPLIRSQLRVVVRKPPVREGTSSRLKVRTRKKT VPSDVDS
6428	1982	444	SGSGGKMEDHQHPVIDIQTSKLLDVLDRRHCSLKWQSLVLTIR EKINAATQDMPESRELAQLLSGSIYHYFHCRLILDLLKGTEAST KNIPGRYSSQRMKDQWEI IALYKDNITYLVLSLLVRNVNVEI PSLKKQIAKCCQLQQBYSRKEEBCQAGAEMREQFYHSCQYGI TGENVRGELLALVKDLPSQLAEIGAAAQQSLGEAIDVYQASVGF VCESPTREQVLPMLRFVQKRGNSTVYEWRTGTEPSVVERPHLEEL PEQVAEDAIDWGDGFEAVSEGTDSGISAEAGIDWGIFFPESDS KDPGGDIDWGDDAVALQITVLEAGTQAPGVARGPDALTILEY TETRNQPLDELMELEIFLAQRAVELSEADVLVSQFQLAPAIL QGQTKKRMVTMVSVLEDLIGKLSLQLOHLMILASPRYVDRVT EFLQQLKQSQLLALKKKLMVQKQKQALREQAALPEKLDLLEK TKELQKLLEADISKRYSGRPVNLMTSL
6429	3413	3442	EPSSWTAAPRCPLAAHPLEAAVQEDDRRLSPDSRIKVPANGTL VVKSVTDKADGYLCVARNKVGDDYVVLKVDVVMKPAKIEHKEE NDHKVYFGGDLKVDCAVATGLPNEIISNSLPDGLVNSFMQSDDS GGRTKRYVVFNGTLYFNEVGMREEGDYTCFAENQVKGDEMVRV VKVVTAPATIRNKTCLAVQVPYGDVVTVACEAKGEMPKVTNLS PTNKVIPSSEKYOIYQDGTLLIQAKQRSDSGNYTCLVRNSAGE DRKTVWIHVNVQPPKINGNPNPITTVREIAAGSGSRKLIDCKAEG IPTPRVLWAFPEGVVLPAFYGNRITVHGNGSLDIRSLRSDSV QLVCMARNEGCEARLIVQLTVLEPMKPIFHDPISEKITAMAGH TISLNCBAAGTPTPSLVVWLPNGTDLQSGQLQRFYHKADGMLH ISGLSSVDAGAYRCVARNAAGHTERLVSLKVGLKPEANKQYHNL VSIINGETLKLPTPPGAGQGRFSWTLPNGMHLEGPQTLGRVSL LDNGTLTVREASVDRGTIVCRMETEYGPSVTSIPVIVLAYPPR ITSEPTPVIIYTRPGNTVRLNCMAMGIPKADITWELPDKSHLKAG VQARLYGNRFLHPQGSLLTIQHATQDAGFYKCMKNILGSDSKT TYIHVF
6430	1946	602	RTRVSTGLRRTLLWSEAVGASSTRGDTGIPCSGEGGAGPGGGB AMLEAMAEPSPEDPPPTLKEPETQPPKRRRTIEDFNKFCSEVLA YAGYIPPSKEESDWPASGSSSPLRGSAAADSDGWDSDAPSRLTI QTFVKKAKSSKRRAAQAGPTQPGPPRSTFSRLQAPDSATLLEKM KLKDSLFDLDGPKVASPLSPTSLTHTSRPPAALTVPVLSQGDLS HPPRKKDKRKNKLGPGAGAGFVLRPRPTPGDGEKRSRIKSK KRKLKKAERGRLPPPGPPQAPPSDTSREEREREREREREREMA TVVGGEPVVPVLPPTPEAPRPATVHPEGVPPADSESEKEVGSTE TSQDGDASSSEGEEMRVMDIEDIMVESGDDSDWDLITCYCRKPFAGR PMIECSLCGTWIHLSCAKIKKTNVDPFFYQCKCKELRPEARRLG GPPKSGEP
6431	3	605	WNSSYNLPAYAPYLPCACAMQDGRKGGAYAGKMEATTAGVGR LEEEALRRKRLKALREKTGRKDEKDEGPKTKHLREERERERKEH RELRLRNYVPEDEDLKKRRVPQAKPVAVEKVKQLEAAKPEPV IEEVDLANLAPRKPDWDLKRDVAKKLEKLRRTQRAIAELIRER LKGQEDSLASAVDAATEQKTCDS
6432	56	1692	GGLGTMSRIKQNPETTFEVYVEVAYPRTGGTSLSDPEVQRQFPE DYSQDEVLQTLTKFCFFPYVDSLTVSQVGNFTFVLTIDISKQR FGFRLSSGAKSCFCILSYLPWFVEFYKLLNIALDYTTKRQENQ WNELLETLHLKLPIDDPGVSVHLSVHSYFTVPDTRELPSPENRN LTFYFVAVDVNNMLHLYASMLYERRILICSKSLTTLTACIHGSA AMLYPMYQWQVYIPVLPFHLLDYCCAPMPYLIHLSLMEKVRN MALDDVVILNVDNTLTETPPDDLQSLPNDVISSLKNRLKKVSTT

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			TG D G V A R A F L K A Q A A F G S Y R N A L K I E P E E P I T F C E R A F V S H Y R S G A M R Q F I Q N A T Q L Q L F K Q F I D G R L D L L N S G E G F S D V F E E E I N M G B Y A G S D K L Y H Q W L S T V R K G S G A I L N T V K T R A N P A M K T V Y K F D I A E N G C A P T P E E Q L P K T A P S P L V R A K D P K L R E D R R P I T V H F Q Q V R P P R P H V V K R P K S N I A V E G R R T S V P S P E Q N T I A T P A T L H I L Q K S I T H F A A K F P T R G W T S S S H
6433	1524	484	A P V T K R K E V F A K D S K G S A L D A G R D P K R P A L P E T L C E S G W A S N T A P T T P P Q G W C L C G K D F K S S C Q T P G R E K E R R L A T M H G S C S F L M L L L P L L L L L V A T T G P V G A I T D E K R L M V E L H N L Y R A Q V S P T A S D M L H M R W D E L A A F A X A Y A R Q C V W G H N K E R G R E G N L F A I T D E G M D V P L A M E W H H E R E H Y N L S A A T C S P G Q M C G H Y T Q V V W A K T E R I G C G S H F C E K I Q G V E E T N I E L L V C N Y E P P G N V K G R P Y Q E G T P C S Q C P S G Y H C K N S L C E P I G S P D A Q D L P Y L V T E A P S P R A T E A S D S R K M G A E G P D K P S V S V G L N S G P G H V W G P L L G L L L L P L V L A G I F
6434	40	2002	M P Q L N F G M A D P T Q M G G L S M L L L A G E H A L G T P E V F S G T C R P D V S E S P E L R Q K S P L F Q F A B I S S S T S H S D A S T K Q C Q T S A L F Q F A B I S S N T S Q L G G A E P V K R C G K S A L F Q L A E M C L A S E G M K M E S K L I K A K E S D G G R I K E L E K G K E K E I K M E X T D R T R L Q K E A B F E K S A K E N L R D S K E L R N F E A L Q I D D I M A I K M E D P K E I R K E E L E E D H K C S H F D F S Y S A S S K I I S D V P S R K D H M C H P H G I M I E D P A A L N K P E K L K K K K K K S K M D R H G N D K S T P K K T C K R Q S S E S D I E S V I Y T I E A V A K G D W G I E K L G D T P R K K V R T S S G K G S I L D A K P P K K V K S R E K K M S K E K S S D T T K E S R P P D F I S I S A S K N I S G E T P E G I K A E P L T P M E D A L P P S L S G Q A K P E D S D C H R K I E T C G S R K S E R S C K G A L Y K T L V S E G M L T S L R A N V D R G R K S S G K G N S D H E G C W N E S W T F S Q S G T S G S K K P K K T K P K R D C L L G S A K L D E E F E K K F N S L P Q Y S P V T F D R K C V P V P R K K K K T G N V S S E P T K T S K G S G D K W S N K Q L F L D A I H P T E A I P S E D R N T M E P V H K V K N I P S I F N T P E P T T A R T F G G Q P K E K S K E N P D Y S P C Q D T Q R A G Y H H E E V L W M T N L M N N C G G V Y L Q L R H T A M T N A
6435	2227	657	A L Q R D A A A Y A H P E Y E E R F L Q E R T V S Q Q I N S I E L L Q T R P L A L P E V V K S Q R P L Q R Q V H L R G R P A S Q P T V I R G I T Y Y K A K V S E E N D I E E Q Q D E F F S G D N G V D L L I E D Q L E R H N G L M T S V T R R P A A T R Q C H S T A V T S D L N A R T A P W S S A L P Q P S T S D P S I A N H A S V G F T L Q T T S V S P D P T R E S V L Q P S P Q V P A T T V A H T A T Q Q P A A P A P P A V S P R E A L M E A M H T V P V P P T T V R T D S L G K D A P A G R G T T P A S P T L S P E E D D I R N V I G R C K D T L S T I T G P T T Q N T Y G R N E G A W M K D P L A K D E R I Y V I N Y Y G N T L V E F R N L E N F K Q G R W S N S Y K L P Y S W I G T G H V V Y N G A F Y Y N R A F T R N I I K Y D L K Q R Y V A W A N L H D V A Y E A T P W R N Q G H S D V D F A V D E N G L W L I Y P A L D D E G F S Q E V I V L S K L N A A D L S T Q K E T T W R T G L R R N F Y G N C F V I C G V L Y A V D S Y N Q R N A N I S Y A F D T H T N T Q I V P R L L P E N E Y F Y T T Q I D Y N P K D R L L Y A W D N G H Q V T Y H V I F A Y
6436	1295	341	G A C R P P V R Q D P D S G P D Y E A L P A G A T V T T H M V A G A V A G I L E H C V M Y P I D C V K T R M Q S L Q P D P A A Y R N V L E A L W R I I R T E G L W R E M R G L N V T A T G A G P A H A L Y P A C Y E K L K T L S D V I H P G G N S H I A N G A A G C V A T L L H D A A M N P A E V V K Q R M Q M Y S P Y H R V T D C V R A V W Q N E G A G A F Y R S Y T T Q L T M N V P F O A I H F M T Y E F L Q E H F N P Q R R Y N P S S H V L S G A C A G A V A A A A T P L D V C K T L L N T Q K S I A L N S H I T G H I T G M A S A F R T V Y Q V G G V T A Y F R G V Q A R V I Y Q I P S T A I A W S V Y E F F K Y L I T K R Q E W R A G K
6437	1828	360	P P A P A P A S P A R H V T R T A R G H L E G G S R A P P L L Q A V F L Q I K N M V K L I H T L A D H G D D V N C C A F S F S L L A T C S L D K T I R L Y S L R D P T E L P H S P L K F H T Y A V H C C C F S P S G H I L A S C S T D G T T V L W N T E N G Q M L A V M E Q P S G S F V R V C Q F S P D S T C L A S G A A D G I V V L W N A Q S Y K L Y R C G S V K D G S I A A C A F S P N G S F F V T G S S C G D L T V W D D K M R C L E S E K A H D I G I T C C D F S S Q P V S D G E Q G L Q F F R L A S C G Q D C Q V K I W I V S P T H I L G F E L K Y K S T L S G H C A F V L A C A P S H D G Q M L V S G S V D K S V I V D

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			TNTENILHTLTQHTRYVTTCAFPNTLLLATGSMKDTVNIWQFD LETLCQARSTEHQLKQFTEDWSEEDVSTWLCADLDKDLVGIFKM NNIDGKELLNLTKESLADDLKIESLGLRSKVLKRIEELRTKVKS LSSGYPDEFICPITRELMKDFVIASDGYSYKEAMENWPAKRN RTSP
6438	109	901	EVQILRAKMFQTGGILVIFYGLLAQTMAQFGGLPVPLDQTLPLNV NPALPLSPTGLAGSLTNALSNGLSGGLLGILENPLDLILKFG GGTSGGLLGGLLKVTSVIPGLNNIIDIKVTDPLLELGLVQSP DGHRLVYTIPLGILKQVNTPLVGASLLRLAVKLDITAEILAVRD KQERIHVLGDCETHSPGSLQISLLDGLPLPIQGLLDSLTGILN KVLPELVQGNVCLVNEVLRGLDITLVHDIVMMLIHGLQFVIVK SIQTASAITTEMASQSGGIQQLQAEKRAAEKVADARKKRKRL KQAKBEAQMEVEQYRREREHEFQSKQQAAMSGGNLSAEVQAT RRQVQGMQSSQQRNRKVLQALLGMVCDVRPVHFNIRISA
6439	23	412	RARMNSDMGDLPGVLRLSIALRIQPNDDGVPYKVDGQRFQNR IKLLTGSSYKVEVKIKPSTLQVENISIGCVLVPLELKSKEPDGD RVVYTGTVDTGVTPTKSGERQPIQITMPPTDIGTFETVWQVKF VNYHKRDHCQWGSPPSVIEYECKPNETRSLMWNKESFL
6440	3	517	KSGGLRRRQPRGRSAAVGSEELPPGMEKFKAAMLJGSVGDALGY RNVCKENSTVGMIQEBELQSSGGLDHLVLSPEGVPSDNTIMHI ATABALTTDYWCDDLYREMVRCYVEIVEKLPERRPDPATIEGC AQLKPNNYLLAWHTPFNEKSGSGGAATKAMCIGLYWKPERLET LIEVSVEGRMTHNHPGTGLGSLCTALFVSFAAQGKPLVQWGRD MLRAVPLAEYCRKTIIRHTAEYQEHWFYFAKQWQPYLEERKISK DSENKAI FPDNYDABERREKTYRKWSSEGRGRRGHDAPIAYDA LLAGNSWTELCHRAMFHGOESAATGTIAGCLPGLLYGLDLVPK GLYQDLEDKEKLEDLGAALYRLSTEEK
6441	234	1373	AEDPAGGLAGQDTMFARGLKRKCVCVGHREDVEGALAGLKTVSYS LQSQSLDMSLVKLQICHMLVEPNLCRSVLIAVTRQIQEEMTQ DGTWRTVAPQAERAFLDLVSTELCRAANGQEGAHFASGLGD GHTQGPVSDLCPVTSQAQAPRHQSSAWMDGPRENRGSPFKSLD QIFETLETKNPSCMEELFSDVDSPPYDIDTVLTGMGGARPGPC BGLGLAPATPGSSSCKSDLGELDHVVEILVET
6442	34	796	MASPAASSVRPPRPKKEPQTLVLPKNAABEQKLEKRLMKNPDK AVPIPEKMSENAPRPPEFVRDVMGSSAGSGEFHVYRHLRRR RYORQDYMDAMARKOKLDAEFQKRLKKNKIAABEQTAKRKKRQ KLKSKKLLAKKMKLEQKKQEGPGQPKQCGSSSSAEASGTEEEKE VPSFTMGR
6443	2	555	GSTPRGKMRAPPEPKPGDLIEIFRPFYRHWAIVYVGDYVHILA PPSEVAGAGAASVMSALTDKAI VKKELLYDVAGSDKYQVNNKHD DKYSP LPCSKI IQRAEELVGQEVLYKLTSENCHEFVNELRYGVA RSDQVRDVI IASVAGMGLAAMSLIGVMFSRNKRQKQ
6444	390	899	AGAAGAAGAARSPPRQAHTKGVRLPSRRRSPDCGRMELAAGSF SEEQFWACARLQPPALAGADWQLLVETSGISITRLLDKKTGLY EYKVFVLEDCSPTLLADIYMSDYRKQWDQYVKELYEQECNGE TVVYWEVKYPPMSNRDYYVLRQRDLDMBGRKIHVILARSTSM PQLGERSGVIRVKYQKSLAIESDGKKGSVFMYYFDMPGGQIP SWLINWAAKNGVFNFLDMARACQNYLKKT
6445	2	753	RCPTRSPPPDTPGSRGTTAMCSLASGATGGGAVENEDLPELS DSGDRAAWEDDADLPHCKQQTPLCFNRLFTSAEFTFSHCKS EHQFNIDSMVHKHGLEFYGYIKLINFIRLKNPTVEYMNSIYNPV PWEKEEYLPVLEDDLLQFDVEDLYEPVSVFPFSYPNGLSENTS VVEKLKHEARALSAAALARAREDLQMKQFAQDFVMHTDVRT CSSSTSVIADLQEDDGVYFSS YGHYGIHEMLDKKIRTESYRD FIYQNPFIKDKVVLVDVGCSTGLSMFAAKAGAKKVLVDQSEI
6446	1	1651	

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			LYQAMDIIRLNKLEDTITLIGKTIERVHLPVEKVDVITSEWNGY FLLFESMLDSVLYAKNKYLAKGGSVYPDICTISLVAVSDVNKHA DRIAFWDDVYGFIMSCMKKAVIPEAVVEVLDPKTLISEPCGKIH IDCHTTSISDLFSSDFTLKITRTSMCTAIAGYFDIYPERNCHN RVVFSTGPGSTKTHWKQTVFLLKPPSVKAGEALKGKVTVHRNK KDPRLSLTTLTLNNTQTGYLQ
6447	1554	1068	RLGPAEWHLSGPGCHATLGAANRGRALGVRAAWRGAPLCQVMMMP SRTNLATGIPSSKVKYSRLSSTDGVIDLQPKKTPPKIPYKALA LATVFLIGAPLIIGSLLLSGYISKGGADRAVPVLIIGILVFL PGFYHLRIAYYASKGYRGYSYDDIPDFDD
6448	74	559	GOVLSHCYHYRSSRWRRGGLSRGRGAGVMALVPVEETTFEGLQK FHKPLATPFSFANHTIQRQDWRHLGVAADVNDAAIVLSTYLEMG AFELRGRSAVELGAGTGLVGIVAALLACRIRYERDNNFLAMLER QFIVRKVHYDPEKDVHIYEAKRNQKEDL
6449	597	1876	EYGVCCNLRKLEITGVSCRDVYAKLLHRYRHLGLWQPDIGPYG GLLNVVDGLFIIIGMYLPHDHPVDDPMRFKPLFRIHLMERKA ATVECMYGHKGPHGHIQIVKDEPSTKCNQTDHHRMSGGRQEE PRTNLRREWGRTLEDIFHEHMQLILMKFIYTSQYDNCITYRRI YLPSPRPDDLKIPGLFKGTYSGLLEIVMLSFHGRRARGTKITG DPNIPAGQQTVEIDLRRHRIQLPDLENQRFNELSRIVLEVRERV RQEQQEGGHEAGEGRGQGPRESQPSAPQABAPSKGPDGTPG KDGGEFGDAVAAAEQPAQCGQGPVFLPVGVSSRNEDYPRTCRM CFYGTGLIAGHGFTSPERTPGVFLPDRFRGFVWLELKSFSLY SRVQATFRNADAPSPQAFDEMLNIOQLTS
6450	848	269	FVPAPRTVSGKRSLEGEWEERGBEORTGREFSGNGGRAVEAAR MRLCGLNLWLSLLKVLQATPTPLPLPPMQSFQGNQFQGEWF VLGLAGNSFRPEHRALLNAFTATPBLSDDGFRFBVWNAMTRGQHC DTWSYVLIPAAQPGQFTVDHRVWTHEQAGRPQDQAPAGQLVAAS RDAGPVHLPGQSSGPLG
6451	232	939	HSPTPTSPRATMEDVKLEFPSPQCKEDABEWYTPMRREMGE ILPGLFLGPISSAMSKSLPVLQKHGITHIICIRQNTIANFIKPN PQOLFRYLVDIADNPEVNIIRFPMTKEFTDGLQMGKVLVH GNAGISRSAAFIAYIMETFGMKYRDAFAYVQERRFCINPNAGF VHQLQYEBAIYLAKLTIQMMSPQLIERSLSVHSGTGLSKRTHE BEDDFGTMQVATAQNG
6452	1	652	RTRGESSNMEPLAAYPLKCSGPRAKVFVALLSIVLCTVTLFLLQ LKFLPKKINSFYAFVKDAKGRVTSLEKYKGVSLVNVASDCQ LTDRLNLGLKELHKEFGPSHPSVLAFFPCNQFGBSEPRPSKEVES FARKNYGVTFPIPHKIILGSEGEPAFRFLVDSSKKEPRWNFWK YLVNPEGQVVKFWRPEEPIEVIRPDIALVRQVVIKKKEDL
6453	827	223	HRRWLPGLSMSPRRTLPRLSLCLSLCLCLCLAAALGSAQSGSC RDKKNCKVVFSGQELRKRLTPLQYHVTVQKGTESAFEGEYTHHK DPGIYKCVVCGTPLFKSETKFDSSGSGWPSFHDVINSEAITPTDD FSYGMHRVETSCSQCGAHLGHIIDDGPRPTGKRYCINSAALSFT PADSSGTAEGSGSVASPAQADKAEL
6454	827	223	HRRWLPGLSMSPRRTLPRLSLCLSLCLCLCLAAALGSAQSGSC RDKKNCKVVFSGQELRKRLTPLQYHVTVQKGTESAFEGEYTHHK DPGIYKCVVCGTPLFKSETKFDSSGSGWPSFHDVINSEAITPTDD FSYGMHRVETSCSQCGAHLGHIIDDGPRPTGKRYCINSAALSFT PADSSGTAEGSGSVASPAQADKAEL
6455	1042	173	RVHLATVSASAAWDALGLEPVRSHMQGSTRMGVMTDVHRRFLQL LMTHGVLEWDVKRLQTHCYKVHORNATVDKLEDFINNINSVLE SLYIBIKRGVTEDDGRPIYALVNLATTSISKMATDFAENELDLF RKALELIIDSETGFASSTNILNLVDQLKGKMRKKEAEQVLQKP VQNKWLEKEGEFTLHGRAILEMEQYIRETYPDVAVKICNICHSL

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6456	2	555	LIQQQSCETCGIRMHLEPCVAKYFQSNAPRCPCNDYNPHEIPK VFDPEKERSGVLKSNKSLRSRQH RPQSRISIMWRNSLLQVSSGLRWLRVCAMVDILGERHLVTCRGA TVBAEAALQNKVVVALYFAAARCAPSRDFTPLLCDFTALVAEAR RPAPFEVVPVSADGSSQEMLDPMRELHGAWLALPFHPDPYRHEIR KRYNVTAIPKLIVKQNGEVTNKGRKQIRERGLACPDQDWVEAA DIFQNFVS
6457	23	892	PTTGFPVTNFPWNWPDGKPPIMILYVSKLNKI IHFPDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLEET IILGKQYSLNIIISVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IPTAANGVYTKQMDPKELGKYGVLFYNACPMI IPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLMYSTVLCSTYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTSSQLKPKPVGEENICLDLKS
6458	23	892	PTTGFPVTNFPWNWPDGKPPIMILYVSKLNKI IHFPDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLEET IILGKQYSLNIIISVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IPTAANGVYTKQMDPKELGKYGVLFYNACPMI IPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLMYSTVLCSTYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTSSQLKPKPVGEENICLDLKS
6459	23	892	PTTGFPVTNFPWNWPDGKPPIMILYVSKLNKI IHFPDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLEET IILGKQYSLNIIISVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IPTAANGVYTKQMDPKELGKYGVLFYNACPMI IPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLMYSTVLCSTYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTSSQLKPKPVGEENICLDLKS
6460	23	892	PTTGFPVTNFPWNWPDGKPPIMILYVSKLNKI IHFPDFDKKIPV KLFPLPLLYVGNHISGLSSTSKLSLPMFTVLRKFTIPLTLLEET IILGKQYSLNIIISVFAIILGAFIAAGSDLAFLNLEGYIFVFLND IPTAANGVYTKQMDPKELGKYGVLFYNACPMI IPTLIISVSTG DLQQATEFNQWKNVVFILQFLLSCFLGFLMYSTVLCSTYNSAL TTAVVGAIKNVSVAYIGILIGGDYIFSLNLFVGLNICMAGGLRY SFLTSSQLKPKPVGEENICLDLKS
6461	1653	360	LQORTLRITAVGQTHPIAWMAWEPISLGAIFYGPASFITFVNCMYF LSIFIQLKRHPERKYELKEPTEEQQRLAANENGEINHQDSMSLS LISTSALENEHTFHSQLLGASLTLLLYVALNMFALAVSLYYP DLVFSFVFGATSLSFSAFFVHHCVNREDVRLAWIMTCCPGRSS YSVQVNVQPPNSNGTNGEAPKCPNSSAESSCTNKSASSFKNSSQ GCKLTNLQAAAAQCHANSPLNSTPQLDNSLTEHSMNDIKMHV APLEVQFRTNVHSSRHKNRSKGRASRLTVLREYAYDVPTSV GSVQNLGPKSRLGNNEGHSRRRAYLAYRERQYNPPQDSSDAC STLPKSSRNFEKPVSTTSKKDALRKPAVVELENQKSYGLNLAI QNGPIKSNQEGPILGTDSTGNVRTGLWKHETTV
6462	3	773	SEELDREKKLKEDSPRKTNPKEGVPSPVSLTSIKEEPKEAKH PDSQSMREESKLKNDDRKTPVNWKDSRGTRVAVSSPMSQHQS YIQYLHAYYPQMYDPSHPAYRAVSPVLMHSPGAYLSPGFHYPVY GKMSGREKTEKVNTSPSVNTKTTTESKALDILLQOHANQYRSK SPA PVEKATAERERRERERDRHSPFCQRLHHTHHHTHVGMGYPL IP GOYDFPQGLTSAALVASQQVAAQASAGMFPQQRRE
6463	2	350	VILCILGGNIFKNADRSMEKKKGEPRTAEARPPWDEDLKDS SD LHQAEDADEWQSEENVEHIPPSHNHYPEKEMVKRSQBFYRL LNKRRSVRFSNEQVPMEVIDNVIRTAGL
6464	12	1154	GILRQKEREERNRIHKKEILFLHLVVPSEMSSLSGKVQTVLG

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			LVPEPSKLGRTLTHEHLAMTFDCCYCPPPPCQEAISKEPIVMKNL YWIQKNAYSHKENLQLNQETRAIKEELLYFKANGGALVENTTT GISRDTQTLKRLABETGVHIIISGAGFYVDATHSSSETRAMSVEQL TDVLMNRILHGADGTSIKCGIIGEIGCSWPLTESERKVLQATAH AQQLGCPVIIHPGRSSRAPQIIRILQAGADISKTVMSHLDR TILDKKELLEFAQLGCLYEDLPGTELLHYQLGPDIDMPDDNKR IRVRLLVEEGCEDRILVAHDHKTIRLMKYGGHGYSHILTNVV PKMLLRGITENVLDKILIEPKQWLTFK
6465	126	1396	KMTVFFKTLRNNHKKTAGLCLTWGGHWLYGKHCMDMLLRRAC QRAQVFGNQLIPPNAQVKATVFLNPAACKGKARTLFEKNAAP LHLSGMDVTIVKTDYEGQAKKLLRLMENTDVIIVAGGDGTLQEV VTGVLRRTEATFSKIPIGFIPLGETSSLSHTLFAESGNKVQHI TDATLAIKGETVPLDVLQIKGEKEQPVFAMTGLRWGSFRDAGV KVSQYKYLEPLKIKAAHFFSTLKEWPQTHQASISYTGPTERP RPEETPVQRPSTLYRRIILRLASYWAQPDALSOEVSPEVWKDVQ LSTIELSYITRNQDPTSKEDFLNICIEPDTISKGDFITIGSR KVRNPGLHVBGTECLQASQCTLLIPEGAGGSFSDISERYEAMPV EVKLLPRKLQFFCDPRKREQMLTSPTQ
6466	1134	828	VARGTELSQLEKAHPPADMGRKSKRKPPPKKMTGTLETQPTC PCNHEKSCDVMDRARTNGVISCTVCLREFTPTITLSEPVDV YSDWIDACRAAQ
6467	301	2571	GRLRVLALAHGELACHAVLTASLLSLRSLRMSDMDYKRPNVET IKCVVVGDNVAGKTRLICARACNATLTQYQLATHVPTVWAIQ YRVCQEVLEERSRDVDDVSILRLWDTFGDHHKDRRFAYGRSDV VVLCFSTIANPNSLHHVKTMYPEIKHFCPRAPVILVGCQLDLRY ADLEAVNRARRPLARPIKPNELPPEKGREVAKELGIPYYETSV VAQFGIKDVFDAIRALISRRHLQFWKSHLRNVQRPLIQAAPFL PPKPPPIIIVVPDPSSSECEPAHLLDPLCADVILVLQERVRI FAHKIYLSSTSSKFYDLFLMDLSBEGELGGPSEPGGTHPEDHQGH SQHHHHHHHHHGRDFFLLRAASFVDCESVDEAGSGPAGLRAS SDGILRGNGTGYLPGRGRVLSWSRAFSIQREMAEDPLTYKSR LMVVVKMOSSIQPGPPRAVLKYLYTGELDENRDLMHIAHIAEL LRVFDLRMMVANILNNEAFMNQETKAFHVRRTNRVKECLAKGT FSDVTFILDDGTISAHKPLLISSCDMAAMPGGPFVESSTREVV FPYTSKSCMRVLELYLYTGMPSTSPDLDDMKLIILANRLCLPHL VALTEQYTVTGLMEATQMMVDIDGDVLVFELEAQFHCAYQLADW CLHHICTYNNVCRKFPDRDMKAMSPENQEFKHRNPPVWYLKE EDHYQARKEREKEDYLHLKRPKRRWLFNNSPSSPSSSAASSS SPSSSSAVV
6468	3	1374	DAWAGTNMAALAPVGPASRGPRLAAGLRLLPMLGLLQLLAEPG LGRVHHLAKDDVRHKVHLNTFGFFKDGVMVNVVSSLSLNEPED KDVITIGFSLDRTKNDGFSSYLDEVDVNYCILKKQSVSVTLILDI SRSEVRVKSPPPEAGTQLEKIIFSRDEKVLGQSQEPNVNPASAGN QTQKTQDGGKSKRSTVDSKAMGRKSFVHNNGGAVSFQFFFNIS TDDQEGLYSLYFHKCLGKELPSDKFTFSLDIEITEKNPDSYLSA GRIPLPKLYISMAFFFLSGTIWIHILRKRNDVFKIHWLMAAL PFTKSLSLVFHAIDYHYISSQGFPPIEGNAVYVYITHLLKGALLF ITIALIGTWAFIKHILSDKDKKIFMIVIPRRVLANVAYIIIES TREGTTEYGLWKDSLFLVDLLCCGAILPPVWVSIRHLQASATD GKGFPSRAHFVLLSL
6469	3	1374	DAWAGTNMAALAPVGPASRGPRLAAGLRLLPMLGLLQLLAEPG LGRVHHLAKDDVRHKVHLNTFGFFKDGVMVNVVSSLSLNEPED KDVITIGFSLDRTKNDGFSSYLDEVDVNYCILKKQSVSVTLILDI SRSEVRVKSPPPEAGTQLEKIIFSRDEKVLGQSQEPNVNPASAGN QTQKTQDGGKSKRSTVDSKAMGEKSFVHNNGGAVSFQFFFNIS TDDQEGLYSLYFHKCLGKELPSDKFTFSLDIEITEKNPDSYLSA

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			GEIPLPKLYISMAFFFLSGTIWIHILRRRRNDVFKIHWLMAAL PPTKSLSLVFHATIDYHYISSQGFPPIEGWAVVYITHLKGLLF ITIALIGTGNWAFIKHILSDKDKKIFMIVIPRRVLNVAYIIRBS TBEGTTEYGLWKDSLPLVDLLCCGAILFPVWVSIRHLQESATD GKGKPSRAHFVLLSL
6470	2726	1437	AAASGVSSRADAPVLAQSPASAGNGRPSTPRVPGSRRHPSAPRS GPLPREDGCRTPGPQLPLPGALLRPRTLLSSAAETGRSRHPDT QHPSSGRCRGSTSPSSAAGRPMASAEEDCHSDTVRADDE ENESPARTDLQAQLQMFRAQWMLAPGVSSSNLENRPCCRAARG SLQKTSADTKGKQBOAKEKARELFLKAVEEBQNGALYEAIFY RRAMQLVPIEFKITYTTRSPDGDGVGNSYIEDNDDDSKMDLLS YFQQQLTFQESVLKLCQPELESSQIHISVLPMELMYIFRWVVS SDLDLRSLQLSLVCRGFYICARDEIWRLLACLKVGWGRSCIKLV PYTTSWREMFLEPRVRFDGVYISKTTYIRQGEQSLDGFYRAWHQ VEYYRYIRFPDGHVMMLTTEEPQSVIPRLRTR
6471	1750	299	FFFDKMAAGSGVGGKRSSKSDADSGFLGLRPTSDPALRRRRR GPRNKKRGWRRLAQEPLGLEVDQFLEDVRLQERTSGGLLSEAEN EKLFPVDTGSKKGLTKKRTKVOKSLLLKKPLRVDLILENTSK VPAPKDVLAHQVPNAKLRKEQLWEKLAKQGELEPREVRAQAR LINPSATRAKPGPDQTVRPFYDLWASDNPLDRPLVGQDEFLE QTKKKGVKRPARLHTKPSQAPAVEVAPAGASYNPSFBDHQTLSS AAHEVELQRKEABKLERQLALPATEQAATQSTFQELCEGLLE ESDGEGERGQGEPEAGDAEVCPTPARLATTEKKTEQORRREKA VHRLRVQQAALRAARLRHQELFRLRGIKAQVALRLAELARRQRR RQARREARADKPRRLGRKYQAPDIDVQLSSKLTDSLRLTKPEG NILRDRFKSFQRNMIEPRERAKFKRYKVKLVEKRAFREIQ
6472	3	897	SCGSDRAQWAMEFFPDVDALFPERITVLDQHLRPPARRPGTTTP ARVDLQQQIMTIIDELGKASAKAQNLSAPITSASRMQSNRHVVY ILKDSARPAGKGAIIQFIKVGKPLFVLDREAHNEVEPLCIL DFYIHESVQRHGHGRELQYMLQKERVPHQLAIDRPSQKLLKF LNKHYNLETTVPQVNNFVIFEGFPAHQHPPAPSLRATRHSRAA AVDPTPAAPARKLPKRAEGDIKPYSSSDREPLKVAVEPPWPLN RAPRRATPAHPPPRSSSLGNSPERGPLRPFVP
6473	22	912	SSAVEFVWEGEKMAEPNRTETIQLPKRLRAVPTNKACFDCGAK NPWSASITYGVFLCIDCSGVHRSGLVHLSFIRSTELDSNNWVQ LRCMQVGGNANATAFFRQHGCTANDANTKYNRAAQMYREKIRQ LGSAAALRHGTDLWIDNMSSAVPNHSPEKKDSDFTEHTQPPAN DAPATEPSGTQQPAPSTESSGLAOPRHGPNITDLGTSFKASLEL KSSIIGKKKPAAKKGLGAKKGLGAQKVSSQS*SEIERQAQVAB KLRLQQAADAKKQAESMVASMLAYQLQIDR
6474	3	462	LQORQHFAAAPAVPVRCPFCFTDIVIMPKRKSPENTEGKDG KVTQKQBPTRRSARLSAKPAPPKPEPKPRKTSAKKEPGAKISRG GKKEKQEGAGKGTAPSNGETKAEIHIHSRSTVNVSTSRGTP PSTLSVKQIETVRVKGTEN
6475	3	462	LQORQHFAAAPAVPVRCPFCFTDIVIMPKRKSPENTEGKDG KVTQKQBPTRRSARLSAKPAPPKPEPKPRKTSAKKEPGAKISRG GKKEKQEGAGKGTAPSNGETKAEIHIHSRSTVNVSTSRGTP PSTLSVKQIETVRVKGTEN
6476	106	1090	ARAMAQYKGTMRAGRAMHLKKRRRQREQMEVLKQRIARETIL KSQVDKRFSAHYDAVEAELKSSTVGLVTLNDMKARQALVRERE ROLAKROHLEBQRLQEQRRQEQRRERKRKISCLSFALDDLD QADAAEARRAGNLGNPDVDTSFPLPDRDREZEENLRREELRQW EAQREKVKDEEMVTFVWDGSGHRRTVRVKGNVTQQLKAL QGLRKDFLELSAGVEQLMFIKEDLILPHYHTFYDFIARARGK SGPLFSFDVHDDVRLLSDATMBKDESHAGKVLRVRSWYEKNKHIF PASRWBYDPEKKWDKYTIR

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6477	227	915	LQGHLMGIMAASRPLSRFWGKNIVCVGRNYADHVREMRSAVL SEPVLFLKPFSTAYAPGSPILMPAYTRNLHHELELGVMGKRRCR AVPEAAAMDYVGGYALCLDMTARDVQDECKKGLPWTLAKSF SCPVSAPVPKEKIPDPHKLKLWLKVNGLRQGETSSMIFPSIPY IISYVSKIITLEGGDIILTGTPEGVGPVKRNDIEAGIHGLVSM TFKVEKPBY
6478	2	1495	FVSSRILPESLASSRSTLEAMGRKEEDDCSSWKKQTTNIRKTF IPMEVLGSGAFSEVFLVKQRLTGKLFALKCIKSPAFRDSSLEN RIAVLKKIKHENIVTLEDIYESSTHYILVMQLVSGGELFDRILE RGVYTEKQASLVIOQVLSAVKYLHENGIVHRDLKPENLLYLTP ENSKIMITDFGLSKMBQNGIMSTACGTPGYVAPEVLAQKPYSKA VDCWSIGVITYILLGYPFPYEETBSKLFKEIKEGYEFBSFPW DDISESAKDFICHLEKDPNERYTCEKALSHPWIDGNTALHRDI YPSVSLQIQKNFAKSKWRQAFNAAVVHMRKLMHNLHSPGVRP EVENRPPETQASETSRPSSEITITTEAPVLDHVALPALTQLPC QHGRRTAPGGRSLNCLVNGSLHSSSLVPMHQGSLAAGPCGCC SSCLNIGSKGSSYCSSEPTLLKKANKKQNPKEVMVPVKASGSS HCRAGGTGVCLIM
6479	3	949	SCRCPGWHFAGGQACAMELLSALSGLGELALSFSRVPLFPVFDLS YFIVSILYLKYPEGAVELSRRIPIASWLCAMLHCFGSYLLADLL LGEPLIDYFSNNSSILLASAVWYLIFFCPLDLFYKCVCFPLVKL IFVAMKEVVRVKIAGVIGHAHHHYHHGWFVMIATGWVKGSGVA LMSNFEQLLRGVWKPETNEILHMSFPTKASLYGAILFTLQOTRW LPVSKASLIFITFLMVSKCVPLTATHSHSSPFDALGYICPVL FGSACGGDHHHNDHGGSHSGGPGAQHSAMPAKSKKEELSEGSRK KKAKKAD
6480	192	514	DFMSIYFPIHCPDYLSAKMTEVMNNTQPMEEIGLSPRKDGLSY QIFPDPSDFDRCCCKLKDRLPSIVVEPTGEVESGELRWNPPEEFL VQEDQDNCEBTAKENKEQ
6481	110	1131	KSRMDLVVNMVFIAGGTLTAPILAFVASFLLWPSALIRIYYWY WRRITLGMQVRYVHHEDYQPCYSFRGRPGHKPSILMLHGFSAHKD MWLSVVKFLPKNLHLVCVDMPGHEGTTRSSLLDLSIDGQVKRIH QFVECLKLKCKPFLVGTSMGGQVAGVYAAYPSDVSLWLVC AGLQYSTDNQFVQRLKELQGSAAVEKIPLIPSTPEEMSEMLQCL SYVRFKVPQQILQGLVDVRIPHNNFYRKLFLEIVSEKSRYSLSHQ NMDKIKVPTQIINGKQDQVLDVSGADMLAKSIANCQVELLENCG HSVVMERPRKTAKLIIDFLASVHNTDNNKKLD
6482	2517	568	EPVSKVSQSRKAGVPTANTIESQAVEAAMANVPWAEVCEKFOA ALALSRVBLHKNPEKEPYKSKYSARALLEVKALLGPAPEDDE RPEAEDGPGAGDHALGLPAEVVEPEGVPAQRAVRLAVIEPHLV NHIDTEELSAGBEHLVKCLRLRLRRYRLSHDCISLCIQAGNNLGI LWSEREEIETAQAYLESSEALYNQYMKEVGSPLDPTERFLPEE EKLTEQERSKRPEKVYTHNLYYLAQVYQHLEMFKAHYCHSTL KRQLEHNAYHPIEWAINATLSQFYINKLCPMEARHCLSAANVI FGQTGKISATEDTPEAEGEVPELVHQRKGEIARCWIKYCLTLMQ NAQLSMODNIGBLDLDKQSELRLALRKKELDREESIRKKAVQFGT GELCDASAVEEKVSYLRPLDFEARELFLGQHYVFEAKEFPQ IDGYVTDHIEVVQDHSALFKGLAFFETDMERRCKMHKRRIAMLE PLTVDLNPQYLLVNRQIQFEIAHAYDMDLKVAIADRLRDPD SHIVKINNINLSALKYYQLFLDSLDPNKVFPEHIGEDVLRPA MLAKFRVARLYGKIITADPKKELENLATSLEHYKFTVDYCEKHP KAAQIEVELELSKEMVSLPTKMERFRTKMALT
6483	3	623	NSHLLCGLRARAPLSANGREARAMEQRLAEFRAARKRAGLAAQP PAASQGAQTPEKAEAAATLKAAPGWLKRLVWVKPRPASARAQP GLVQRAAQPGGSTSETPWNTAIPLPSCWDQSFLTNTITLKVLLW LVLLGLFVELEFGLAYFVLSLFWYMYVGTRGPBEKKEGEKSAYS

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6484	201	965	VFNPGCBRAIQGTLTAEQLERELQLRPLAGR QLAVKTKMSGLRPGTQVDPEIELFVKAGSDGESIGNCFFCQRLF MILNLKGVKFNVTVDMTKRPELKDLAGTNPFFLVYNKELKT DFTKTEEFLEQLTAPPYRPHLSPKYKESFDVGCNLFKAFSAAYIK NTQKEANKNPKESLLKEPKRLDDYLNTPLLDEIDPDSEEPFVS RRLFLDGDQLTLADCSLLPKLNIKVAAKKYRDFDIPAEFSGVW RYLHNAYAREEFTHTCPEDEKIEITYANVAKQKS
6485	6	1091	FVDLVRVAFELPCPDQKLEKEQSSEESMGSMSMRSTLEEDRE DEEPKRVLYHREPRSEFVGMLVWHKKKYPFWPAVVKSVRQRDK KASVLYIEGHMNPMMKGFVSLKSLKHFOCKEKQTLNQAQEDF NQDIGWCVSLITDYRVRLGCGSFAGSFLRYAADISYPVRKSIQ QDVLGTLKPLQSLKSGSPPEPVGCPGLQRPCKRMPLDRSRAARD RANQKLVEYIGRAKGAESHLRAILKSRKPSRWLQTFLLSSSQYVT CVETYLEDEGQLDLVVKYLGQVYQEVGAKVLQRTNGDRIRFILD VLLPEATICAISAGDEVYKTAREKYIKGPSLSYREKEIFDNQL LEERNRRRR
6486	10	581	LVLQAGGAHLSPSRVTQGIYYMLAFSEMPKPPDYSELSDSLTLA CGTGRFSGPLHRAWMMNFRORMGWIGVGLYLLASAAAFYVFE ISETYNRLALEHIQHPERPELEGTTWTHSLKAQLLSLPFWVWTV IFLVPYLQMFLLYSCSTRADPKTVGYCIIPICLAVICNRHQAFV KASNQISRLQLDIT
6487	352	863	SFLKPLRGKMSVTLHTDVGDIKIRVFCERTPKTCENFLALCASN YYNGCIFHRNIGKFMVQTGDTGTGRGNSIWGKKCFDEYSEYL KHNVRGVSMANNGPNTNGSQPFITYGKQPHLDMKYTVFGKVID GLETDLDELKLPVNEKTYRPLNDVHIKDITIHANPFAQ
6488	878	241	TALQEPGTGEPPLSLRFALEPSGTGRFKPLFGARGPSWPPSPRPV MBPPNLYPVKLYVYDLSKGLARLSPIMLGKQLEGWHTSIVVH KDEFFPGSGGISCCPPGGTLLGPPDSVDVGSTEVTEIFLEYL SSLGESLFRGEAYNLFRHNCNTFSNEVAQFLTGRKIPSYITDLP SEVLSTPPGQALRPLDLSIQIPPGSSSVGRPNQGS
6489	1457	375	KVAKMATALSEBELONEDDYSLNVRREASSEELKAYRRLCML YHPDKHRDPELKSQABRLFNLVHQAYEVLSDPQTRAIYDIYGR GLEMBGNEVVERRRTPABIRREERLQRRERERRLQRTNPKGT ISGVDAITDLFDYDEYEDVSGSSFPQIEINKMHISQSIEAPL TATDTAILSGSLSTQNGNGGGSINFALRRVTSAGWGELEFGAG DLQGLPLFGLKLFRLNLFRCFVTTCALQFSSRGIRPGLTTVLAR NLDKNTVGYLQWHCSSPLLVQVRPHRNTACAPSPFRPFLHVP TWDAECSGARTPTAWTSAAVKLREACLSGPGSGSHQLLLTPR SKRRTGGG
6490	3	1183	HEAGCEVWLGYGPRAAAAAATVLFGGAGPTETMFVARSIAADH KDLIHDVSPDFHGRMATCSDDQSVKVDKSESQDWHCTASWKT HSGSVWRVTWAHPEFGQVLASCSFDRTAAVWEEIVGESNDKLRG QSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYE APDVMNLSQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSD DSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDPVHDIAPAPNL GRSFHILAIATKDVRIFTLPVRKELTSSGGPTKFEIHIVAQFD NHNSQVWRVSWNITGTVLASSGDDGCVRLWKANYMDNWKCTGIL KONGSPVNGSSQGTENPSLGSNIPSLQNSLNGSSAGRKHS
6491	3	1183	HEAGCEVWLGYGPRAAAAAATVLFGGAGPTETMFVARSIAADH KDLIHDVSPDFHGRMATCSDDQSVKVDKSESQDWHCTASWKT HSGSVWRVTWAHPEFGQVLASCSFDRTAAVWEEIVGESNDKLRG QSHWVKRTTLVDSRTSVTDVKFAPKHMGLMLATCSADGIVRIYE APDVMNLSQWSLQHEISCKLSCSCISWNPSSSRAHSPMIAVGSD DSSPNAMAKVQIFEYNENTRKYAKAETLMTVTDPVHDIAPAPNL GRSFHILAIATKDVRIFTLPVRKELTSSGGPTKFEIHIVAQFD NHNSQVWRVSWNITGTVLASSGDDGCVRLWKANYMDNWKCTGIL

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6492	34	2573	<p>KGNGSPVNGSSQQTENPSLGSNIPSLQNSLNGSSAGRKHS</p> <p>IPFLKSCCCCLDFDPPPLDQVQEECEVRRVTEHGTPKPFRK</p> <p>FDSVAFGESQSEDEQPRNDLETDPPNWQQLVSREVLGLKPCFI</p> <p>KRQEVINELFYTERAHVRTLKVLDOVFYQVRSREGILSPSELRK</p> <p>IPSNLEDILQLHIGLNEQMKAVRKRNSTSVIDQIGEDLLTWFSG</p> <p>PGEKLGKHAATPCSNQPPALEMKSQRKDSRPQTFFVQDAESN</p> <p>PLCRRLQLKDIIPTOMQRLTKYPLLLDNIAITYTENPTREKVKK</p> <p>AADHCQILNYVNOAVKEAKNQRLLEDYQRRLLDTSSKLSEYFN</p> <p>VRELRLDLTKRKMIIHGBPLVWKVNRDKTIDLYTLLEDILVLL</p> <p>QKQDDRLVLRCHSKILASTADSKHTFSPVIKLSTVLVRQVATDN</p> <p>KALFVISMDSNGAQIVELVAQTVSEKTVWQDLICRMAASVKESQ</p> <p>TKPIPLPQSTPGEGDNDEEDPSKLKEEQHGISVTGLQSPDRDLG</p> <p>LESTLISSKPPQSHSLSTSGKSEVRDLFVAERQFAKEQHTDGTLK</p> <p>EVGEDYQIAIPDSHLVSEERWALDALRNILGLLQQLLVQQLGLT</p> <p>EKSVQEDWQHFPRTASQGFQDTSVIONSENKAYHSGEGHMP</p> <p>FRTGTGDIATCYSPTSTESFAPRDSVGLAPQDSQASNLVMDH</p> <p>MIMTPEMPTMEPEGGLDSDGEHFDAREAHSDENPSEGDGAVNK</p> <p>EKKDVLNLRISGNVILDGYDPVQESSTDEEVASSITLQPMGTGP</p> <p>AVRSTHQQHSPPONTHSDGALSPTPEFLVQQRWGAMEYSCEFI</p> <p>QSPSSCADSQSQIMEYTHKIEADLEHLKKVESTILCQRLAGS</p> <p>ALTDKHSKDS</p>
6493	557	1147	<p>TPARMAYQGSSTSDCMSTLDSASAHFAASAVVSAVPVSRSEVA</p> <p>KEQNTGHNNGVQVQSGTSTKLYSTNMALSSSPGISAVQLVRT</p> <p>VGHTTTNHLIPALCTSSPQTLPMNNSCLTNAVHLMNVSVVSPVN</p> <p>VHINTRTSAPSPATLKLATVAASMDRVPKVTSPSSAISIAENH</p> <p>EPERLGLNGIARTTVAMEVT</p>
6494	2425	1052	<p>AVAGGARPCSTPSSPHRRCRHRPRPLPRPPAAMSASAVVLD</p> <p>LKGVILICRNYRGDVMSEVEHFMPILMEKEEGMLSPILAHGG</p> <p>VRFMWIKHNNLYLVATSKKNACVSLVFSPLYKVVQVFSEYFKEL</p> <p>EEESIRDNFVLIYELLDELMDFGYPQTDSKILQBYITQEGHKL</p> <p>BTGAPRPPATVITNAVSWRSEGIKYRKNEVFLDVIESVNLLVSAN</p> <p>GNVLRSEIVGSIKMRVFLSGMPBLRLGLNDKVLFDNTGRGKSKS</p> <p>VELEDVKFHQCVRLSRFENDRTISFLPPDGEFELMSYRLNTHVK</p> <p>PLIWIIESVIEKHSRIBYMIKAKSQFKRRSTANNVEIHIPVPN</p> <p>DADSPKFKTTVGSVKNVPENSEIVWSIKSFPGGKBYLMRAHFG</p> <p>PSVEADKEGKPPISVKFEIPYFTTSGIQVRYLKIIEKSGYQAL</p> <p>PWVRYITONGDYQLRTQ</p>
6495	2425	1052	<p>AVAGGARPCSTPSSPHRRCRHRPRPLPRPPAAMSASAVVLD</p> <p>LKGVILICRNYRGDVMSEVEHFMPILMEKEEGMLSPILAHGG</p> <p>VRFMWIKHNNLYLVATSKKNACVSLVFSPLYKVVQVFSEYFKEL</p> <p>EEESIRDNFVLIYELLDELMDFGYPQTDSKILQBYITQEGHKL</p> <p>BTGAPRPPATVITNAVSWRSEGIKYRKNEVFLDVIESVNLLVSAN</p> <p>GNVLRSEIVGSIKMRVFLSGMPBLRLGLNDKVLFDNTGRGKSKS</p> <p>VELEDVKFHQCVRLSRFENDRTISFLPPDGEFELMSYRLNTHVK</p> <p>PLIWIIESVIEKHSRIBYMIKAKSQFKRRSTANNVEIHIPVPN</p> <p>DADSPKFKTTVGSVKNVPENSEIVWSIKSFPGGKBYLMRAHFG</p> <p>PSVEADKEGKPPISVKFEIPYFTTSGIQVRYLKIIEKSGYQAL</p> <p>PWVRYITONGDYQLRTQ</p>
6496	247	559	<p>LRVSLPLQLVLPYISHSILFCIMPLCAQEWLTIGLNVPLLFY</p> <p>HFWRYPHCPADSSSELAYDPPVVMNADTLYSCQKEAWCKLAPYLL</p> <p>SFFYYLYCMIITLVSS</p>
6497	1053	352	<p>ANTQICRLCPRRLHPPCGAKMGNGTEEDYNFVFKVVLIGESGV</p> <p>GKTNLLSRFTNFEFSDSRTTIGVEFSTRVIMLGTAAVKAQIWD</p> <p>TAGLERYRAITSAYYRGAVGALLVFDLTKHQTYAVVERWLKELY</p> <p>DHAEATIVVLMVGKSDLSQAREVPTTEARMFAENNGLLFLETS</p> <p>ALDSTNVELAFETVLKBIFAKVSQRQNSIRTNATILGSAQAGQ</p>

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6498	2636	272	<p>EPGPGKKRACCISL</p> <p>SLRLCPWGTLAGPTTMRLLSSLLALLRPALEPLILGLSLGCSLSL LRVSWIQGEGEDPCVEAVGERGGPQNPDSRARLDQSEDFKPRI VPYYRDPNPKYKKVLTRYIQTELCSRERLLVAVLTSRATLSTL AVAVNRTVAHHFPRLLYPTQGRGARAPAGMQVVSNGDERPAWLM SETLRHLHTHFGADYDWFPIQDDTYVQAPRLAALAGHLSINQD LYLGRAREFFIGAGEQARYCHGQFGYLLSRSLILRLRPHLDGCRG DILSARPDWLGRCLIDSLGVCVSHQGGQYRSFELAKNRDPE KEGSSAFLSAFVHPVSEGTLMYRLHKRFSALRLERAYSIEISQ QAQIRNLTVLTPEGEAGLSWVGLPAPFTFHSRFEVLGWDYFTE QHTFSCADGAPKCPILQASRADVGDALETALEQLNRRYQPRLRP QKQRLNGYRRFDPARGMEYTLDDLEECVTQGRHRRALARRVSL LRPLSRVEILPMPVVTATRVQLVPLVAEAAAAAPFLAFAA NVLEPREHALLTLILVYGPREGGRGAPDPFLGVKAAAELEERRY PGTRLAWLAVRAEAPSQVRLMDVVSKKHPVDTLFPLTTVWTRPG FEVLNRCRMNALSGWQAFPPVHFQEFNPALSPQRSPPGPPGAGP DPPSPPGADPSRGAPIGGRFDRQASAECCFYNDYLAARARLAG ELAGQEEKEEALGGLVMDVFLRFSGHLHFRAVEPGLVQKFSIRD CSPRLSEELVHRCRLSNLEGLGGRALAMALFEQEQANST</p>
6499	3	2040	<p>SCSADTRPSGQANPTVGLRAAAGAFRTGSPLALGPETPVACLP GHPPVRPQVSGGPGAMPDPAHLPPFYGSISRABAEHLKLAGM ADGLFLLRQCLSLGGYVLSLVHDVRFHHFPIERQLNGTYALAG GKAHCGPAELCEFYSRDPDGLPCNLKPCNRPSCGLEPOPGVFD LRDAMVRDYVRQTKLEGEALQAIISQAPQVEKLIATTAHERM PWHSSLTREBAERKLYSGAQTGKFLLRPRKQGGTYALSILYIG KTVYHYLISQDKAGKYCIPEGTKFDTLNQLVLYLKLKADGLIYC LKEACPNSSASNASGAAPTLPAPSTLTHPQRRIIDLNSDGYT PEPARITSPDKRPMMDTSVYESPYSDPEELKDKLFLKRDNL LIADIELGCGNFGSVRQGVYMRKKQIDVAIKVLKQGTBKADTE EMMREAQIMHQLDNPYIVRLIGVCQABALMLVMEAGGGPLHKKF LVGKREELPVSNVABLLHQVSMGMKYLEEKNFVHRDLAARNVLL VNRHYAKISDFGLSKALGADDSYTTARSAGKRLKNYAPBCINF RKPFSSRDVMSYGVITMBALSYGOKPYKMKGPEVMAFIRQGRK MECPPECPPELYALMSDCWIKWEDRPDPLTVBQMRACYSLSA SKVVEGPPGSTQKAAACA</p>
6500	1773	726	<p>TGPTHASADAWGLVRSVTEWCANVRGNPCAAALSCPAVLDAK MLSESSFLKGVMLGSIFCALITMLGHIRIGHGNRMHHHHHL QAPNKEDILKISEDERMELSKSPRVYCIILVKPKDVSLSAAVKE TWTXHCDAEFSSENVKVFESINMDTNDMMLMRKAYKYAFDK YRDQYNWZFLARPTTFALLENLYFLKDKDPSQPFYLGHTIKSG DLEYVMEGGIVLSVSMKRLNSLLNIPKCPQGGMIWKISED KQLAVCLKYAGVFAENAEDAGKDVFNKTSVGLSIKEAMTYHPN QVVEGCCSDMAVTFNGLTPNQMHVMMYGVYRLRAFGPYFQ</p>
6501	1	570	<p>LVGMSGGGTETPVGCEAAPGGGSKRDSLGTAGSAHLITKDLGE IHSRLDHRPVIQGETRYFVKEFEKRLREMRVLENLKNMHE TNEHTLPKCRDTMRDLSQVQLRLQAANDSVCRLOQREQERKCI HSDHLVASEKQHMLQNDNFMKEQPNKRAEVDEEHRKAMERLKEQ YAEKEDLAKFSTF</p>
6502	213	1650	<p>AGNKPDPWAGRNRTAVLPDVSVPFHREDVGNWRSNLQSSYQAVKE KSSEALEFMKRDLTFTQVQHDFTACTIAATASVVKELATEGS SGATEKMKKGLSDFLGVISDTFAPSPDKTIDCDVITLMGTSGT AEPYDGTAKRLYSLSQSDPATYCNRPDGPPELFDWLSSQFCLEEK KGEISELLVGSPIRALYTKMVPAAVSHSHFPHRYFFYKVHQLQ EQARRDALKQRAEQSISEPGWEEEBELMGISPISPKRAKVPV AKISTFPEGEPGQSPCRENLVTSVEPPAEVTPSESESISLVT QIANPATAPAEARVLPKDLSQLLRASLEBQGLAVDVGETGPSPP</p>

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6503	213	1650	IHSKPLTPAGHTGGPEPRPPARVETLRREAPTDLRVFELNSDSG KSTPSNNGKKGSSTDISEDWEKDFDLDMTEEEVQMALESKVDASG EVSGPGGSGEGSEPNCGPCESSPQPAQLSPQEGPCSCLR AGNKPDPWAGNRRTAVLPDVSVFHREDVGWWRSLQQSVQAVKE KSSEALBFMKRDLTEPTQVVOHDTACTIAATASVVKEKLATEGS SGATEKMKGLSDPLGVISDTFAPSPDKTIDCDVITLMGTPSGT AEPYDGTAKRLYSLSQSDPATYCNEPDGPELFDAWLSQFCLEBK KGEISELLVGSPIRALYTKMVPAAVSHSEFWHRFYKYVHQLBQ EQARRDALKQRAEQSISEEPGWEEEEEKIMGISPISPEAKVFPV AKISTFEEGEPGQSPCKENLVTSVEPPAEVTPSESSESISLVT QIANPATAPEARVLPKDLSQLLEASLEBQGLAVDVGETGPPSP IHSKPLTPAGHTGGPEPRPPARVETLRREAPTDLRVFELNSDSG KSTPSNNGKKGSSTDISEDWEKDFDLDMTEEEVQMALESKVDASG EVSGPGGSGEGSEPNCGPCESSPQPAQLSPQEGPCSCLR
6504	2131	1294	GKVCVAHWVCLSLSPFPAGMKTNPQAQEQQTAAAGRATG SANMTKKKVSQKKQGRFPSSQPCRNIVGCRISHGWKEGDEPTIQ WKGTVLDDQVPINPSLYLVKYDGDICVYGLELHDERVLSLKILS DRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGMVLAQA PIMKANFYITYEKDPVLYMYQLDDYKEGDLRIMPESSESPPTE REPGGVVDGLIGKHVEYTKEDGSKRIGMVIHQVEAKPSVYFIKP DDDFHIYVVDLVKKS
6505	2131	1294	GKVCVAHWVCLSLSPFPAGMKTNPQAQEQQTAAAGRATG SANMTKKKVSQKKQGRFPSSQPCRNIVGCRISHGWKEGDEPTIQ WKGTVLDDQVPINPSLYLVKYDGDICVYGLELHDERVLSLKILS DRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGMVLAQA PIMKANFYITYEKDPVLYMYQLDDYKEGDLRIMPESSESPPTE REPGGVVDGLIGKHVEYTKEDGSKRIGMVIHQVEAKPSVYFIKP DDDFHIYVVDLVKKS
6506	1	1350	EVSPTSCCLTVAVADPGVSEGRGFGAGCEMPGRGRCPDCGST ELVEDSHYSQSQLVCSDCGCVVTBGLTTTFSDENLRKVITYSR STGENEQVSRSQOGLRRVRDLCRVLQLPPTFEDTAVAYYQOAY RHSGIRAARLQKKEVLGCCCVLITCRQHNWPLTMGAICTLLYAD LDVFSSTYMQIVKLLGLDVPSLCLAEVLKTYCSSFKLFQASPSV PAKYVEDKEKMLSRMTQVLVELANETWLVTRHPLPVITATPLA NQSLQPADRLSCSLARFCKLANVDLPYPASSRLQELLAVLLRMA BQLAWLRVLRDKRSVVKHIGDLLQHRQSLVRSAFRDGTARVET REKEPPGNGGQGGEGEYVGNNSLGLPQGRKPASPALLLPFCMLKS PKRICFVPPVSTVTGDENISDSREBQYLRTPOEVRDFQRAQAAR QAATSVPNPP
6507	1878	929	RSHASRLPELPSGCLVLQVQELVQMSGMEATVTIPIWQNKPHGA ARSVVRRIGTNLPLKPCARASFTLENISDCLRDVPPVPTLAD IAWIAADEEETARVRSDDRPLRHTWKPSPLIVMQRNASVPNLR GSEERLLALKKPPALPALSRTTELQDELSHLSQIAKIWAADAAS ASLTFDFLSFGSSNVSSPLPCFGSSPHSTTSFVISDITETETEVE VPPLPSVPLLCSASPECCPEHKAACSSSEEDDCVSLSKASSFA DMMGILKDFHRMKQSQDLNRSLLKEEDPAVLISEVLRKFKALKE KDISRKGN
6508	862	342	WEARKRPQRWPSERREVRVPPHILQGRSGLEPGTFRMAAARP SLGRVLPSSSVLFLCDMQEKFRHNIAYFPQIVSVAARMLKNTTL DLLDRGLQVHVVDACSSRSQVDRVLVALARMRQSGAFLSTSEGL ILQLVGDVHPQFKEIQKLIKEPAPDSGLLGLFGQNSLLH
6509	2	1053	FVWNPRGGRKRRRQAAVTQAATRASGTPSPEDGTMTQKLSVAN KAPGTGQQQVHGEKKKAPAVPSAPPYSYEATSGEGMKAGAFPP APTAVPLHPSWAYVDPSSSSSYDNGFPTGDHELFTTFSWDDQKV RRVFVRKYVITILLIQLLVTLAVVALFTFCDFVKDYVQANPGWYV ASYAVVFATYTLTACCSPRRHFPWNLILLTVFTLSMAYLTGML

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			SSYYNTTSVLLCLGITALVCLSVTVFSFQTKPDTSCQGVLFVL LMTLFFSGLLAILLPFYVPWHLHAYVAAAGAGVFTLFLALDTQ LLMGNRRHSLSPEEYIPGALNIYLDIYIFTFPLQLFGTNRE
6510	37	1156	PCALDGCPCQAGVHPLSSAMGLLAPLKTQFVLHLLVGFVFFVS GLVINFPQLCTLALWVPVSKQLYRRINCLAYSLNSQLVMLLEWV SCTECTLFDTQATVERFGKBHAVIILNHNFRIDFLCGWTMCERF GVLGSSKVLAKBLLYVPLIGWTWYFLEIVFCRKRWEEDRDTVV EGLRRLSDYPEYMWPLLYCEGTRFTTKHRVSMEEVAAAGLPVL KYHLLPRTKGFTTAVKCLRGTVAAVYDVTNFRGNKNPSSLGIL YGKYEADMVRRPFLIEDIPLDEKEAAQWLHKLYQEKDALQRIY NQKGMFPGEQFKPARRPWTLLNPLSWATILLSPLSFVLGVFAS GSPLLILITFLGFVAGNGHCR
6511	2541	1425	GEQPLAAAPTECLEQVIGGAGDPGTWASFPSPPLGPAFLKGGK TMATNPSDIVKQGYVKMSRKLGIYRRCLVFRKSSSKGPRLE KYPDEKSVLCRCCKPVTEISNVKCVTRLPKETKRQAVAIIFTDD SARTFTCDSELEAEWYKTLSECLGSRINDISLGRPDLLAPGV QCEQTDRENFVLLPCPNLDVYGECKLQITHENIYLDIHNPRVK LVSWPLCSLREYGRDATRFTFRAGRMCDAGEGLYTFQTQEGEQI YQVHSATLALAEQEKRVLLMEKNVRLNKGTEHYSYPTPTT MLPRSAWHHTGSONIABASSYAGEGYGAAQASSETDLLNRFI LLPKPSPQODSSEAKTPSQ
6512	159	807	FGKKSTWFFLSRLRVASGRCKLGHGGYTSGPGFGEPRDSGA EVPSSGSGRATGRCERGVRGARQGRAPGSSIWRKEPRMVCRTK TLVSTCVILSGMTNII CLLYVGWVTNYIASVYVVGQEPAPDKL EEDKGDTLKIIERLDHLENVIKQHTQEPAPKPEAEAPPTDSS LFAHWGQELSPGERRVALKQFYGYGNAYLSRLPLDRP
6513	2	756	FVSPGPFSLAQLNLIWQLTDTKQLVHSPABGQDQGSAYANRTA LFPDLLAQGNASRLRQVRVADEGSFTCFVSIRDFGSAAVSLQV AAPYSKPSMTLEPNKDLRPGDVTITCSSYQGYPEAEVFWQDGO GVPLTGNVTTISQMANEQGLFDVHSILRVVLGANGTYSCLVRNPV LQDAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDATLRCSF SPEPGFSLAQLNLIWQLTDTKQLVHSPABGQDQGSAYANRTALE PDLLAQGNASRLRQVRVADEGSFTCFVSIRDFGSAAVSLQVAA PYSKPSMTLEPNKDLRPGDVTITCSSYQGYPEAEVFWQDQGV PLTGNVTTISQMANEQGLFDVHSILRVVLGANGTYSCLVRNPVLQ QDAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDATLRCSFSP EPGFSLAQLNLIWQLTDTRQLVHSPFTEGR
6514	985	302	VGIPGPTISSAAEMKDLDDLEELRYSLATSRAXMGRRRAQESA QARNHLNKNSSLTLTGETSSAKLPRCQGGWAGDSVKASKFRR KASERIEDPRLRPQSLNGSDYGGDIP IIPDLBEVQEDFVLQVA APPSIQIKRVMTYRDLDNLMKYSATQTLDBIDLKLTKVLAP EHEVRERNPSWQDDVGWDWDHLFTEVSSEVLTEWDPLQTEKEDP AGQARHT
6515	1345	305	GRVGSRRRGAAVPGGCGAGSTQLEVSASASCGAIGSADNPITV VHGGGAGPISKORKERVHCGMVRAATVGYGILREGGSADVDAVEG AVVALEDDPEFNAGCGSVLNTNGEVEMDASIMDGKLSAGAVSA VQCIANPIKLARLVMEKTPHCPLTDQGAQFAAAMGVPEIPGEK LVTERNKKRLEKEKHEKGAQKTDCKNLTGVGAVALDCKGNVAY ATSTGGIVNKMVGRVGDSPCLGAGGYADNDIGAVSTTGHGESIL KVNLA RLTLFHIEQGXVBEAADLSLGYMKS RVKGLGGLIVVSK TGWVAKWTSTSPWAAAKDGKLHFGIDPDDTTITDLP
6516	1	1402	FRRLRYLQDATAAARDLRTGLQGYCPSATARQQVLSALQQL KGRRESEHRNENQEMPYSTNKLILGIMVGTAGISLLLLNYHKVR KPGIAMKLPEFLSGLNTFNSITLQDEIHDDQGTTFIQERQLQI LEKLNELLTNMEBLKEEIRFLKEAIPKLEBYIQDELGGKITVHK IS?QHRARKRRLPTIQSSATSNSSBEARESEGGYITANTDTREQS

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			FPVPKAFNTRVEELNLDVLLQKVDHLRMSSESGKSESPELLRDHK EXFRDEIEFMWRFRARAYGDMYELSTNTQKKHVANI GKTLSERA INRAPMNGHCHLWYAVLCGYVSEFEGLQNKINYGHLPKEHLDIA IKLLPEEPFLYVLKGRYCYTVSKLSWIRKKMAATLFGKIFSSSTV QEALHNFLLKAEELCPGYSNPNMYLAKCYTDLEENQNALKFCNL ALLLPVTVKEDKEAQKEMQKIMTSLKR
6517	3	1414	GRVWGSGSSLNAMVYVRGHAEDYERWQROGARGWDYAHCLPYFR KAQGHBLGASRYRGADGFLRVSRGKTNHPLHCAFLATQQAQY LTEDMNGFQOEGFGWMDMTIHEGKRWSAACAYLHPALSRTNLKA EAE TLVSRVLFECTRAVGVRVYKNGQSHRAYASKEVILSGGAIN SPQLMLSGIGNADDLKKLGIPVVCHLPVGQNLQDHLIYIQQ ACTRPITLHSAQKPLRKVCIGLEWLKFTGEGATAHLETGGFIR SQPGVPHPDIOFHFLPSQVIDHGRVPTQAEAYQVHVGPMTSTV GWLKLRSANPDHPVQPNYLSLTETDIEDFRLCVKLTREIFAQE ALAPFRGKELQPGSHIQSDKRI DAFVRAKADSAYHPSTCKMGQ PSDPTAVVDPQTRVLGVENLRVVDASIMPSMVSCNINAPTIMIA EKAADI IKGQPALWDKDVVYKPTLATQK
6518	242	1098	PAWNPGSEFPRTRVRPRARSFPLPPRAPRRRRHRLLRVPGPSR RHRCRRRAPPPSTMGDAGSERSKAPSLPPRCPGFWGSSKTMN LCSKCPADFOKKQPDSDSAPSTNSQSDLFSEBTTSDNNNTSIT TPTLSPSQQLPTELNVTPSPKECGPCTDTAHVSLITPTARSC GTDSQSENEASPVKPRLLENTERSEBTSRSKQSRRRRCFCQT KLELVQOELGSCRCGYVFCMLHRLPQOHDCTFDHMGRREREAIM KMKVLDKRVGRSCQRIGEGCS
6519	3	1113	ERKMAEPPSPVHCVAAPATATVSEKEFPFKLQLSSRDPPGSL AKKVRTEKKAPRRVNGEGSGGNSRQLQPPAAPSPQSYGSPAS WSFAPLSAAPSPSSSRSSFSFAGTAVPSSASASLSQPGPRKLL VPPTLLHAQPHHLLPAAAAAASANA KSRPEKREKERRRHGL GGARRAGGASRENGEVKPLPRDKIKDKIKERDKEKEREKKKKH VMNEIKKNGEVKILKSGKEKPKTNIEDLIKKVKKKKKKKKH ENEKRRPKMYSKSIQTICSGLLTDVEDQAAGILNDNIKDYVG KNLDTKNYDSKIPENSEFPFVSLKEPRVQNNLRLDLEPKQLI HIEHQPNGGASVHCLQ
6520	3	1113	ERKMAEPPSPVHCVAAPATATVSEKEFPFKLQLSSRDPPGSL AKKVRTEKKAPRRVNGEGSGGNSRQLQPPAAPSPQSYGSPAS WSFAPLSAAPSPSSSRSSFSFAGTAVPSSASASLSQPGPRKLL VPPTLLHAQPHHLLPAAAAAASANA KSRPEKREKERRRHGL GGARRAGGASRENGEVKPLPRDKIKDKIKERDKEKEREKKKKH VMNEIKKNGEVKILKSGKEKPKTNIEDLIKKVKKKKKKKKH ENEKRRPKMYSKSIQTICSGLLTDVEDQAAGILNDNIKDYVG KNLDTKNYDSKIPENSEFPFVSLKEPRVQNNLRLDLEPKQLI HIEHQPNGGASVHCLQ
6521	184	1798	KLFKMATDTSQGLVHPKALPLIVGAQLIHADKLGEKVZDSTMP IRRTVNSTRETPPKSKLABEGBEKPBDISSEESVSTVEEQENE TPPATSSAEQPKGEPENBEKENKSSEETKDEKQSKSEKKEK VKKTIPSWATLSASQLARAQKQTPMASSPRPKMDAILTRAIKAC POKSGASVVAIRKYIIHKYPSLELERRGYLLKQALKRELNRGVI KQVKGKGA9GSFVVQKSRKTPQKSRNRKRNSSAVDPEPQVKLB DVLPLAFTRLCEPKEASYSLIRKYVSQYYPKLRVDIRPQLKNA LQRAVERGQLEQITKGASGTFLKKSSEKPLGGSLMEYAILS ALAAMNEPKTCSTTALKKYVLENHPGTNSNYQMHLKKTLOKCE KNGWMEQISGKGFSGTFLCFPPYPSPGVLPFKKEPDDSRDEDE DEDESSERDSEDEPPKRRRLQKTPAKSPKAASVRQSGSKPA PRVSAQRGKARPLPKKAPKAKTPAKKTRPSSTVIKKPSGGSS KKPAT SARKE
6522	1042	391	NKWLSPSPSRHTPESGRVLSLPRLPFGMALSGSTPAPCWEED

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			ECLDYYGMLSLHRMFVVGGLTECELELLAFLLEAPGAGGL SRARSGKLKLLLELERRGQCDESNRLRLGQLLRVLARHDLPLHLA RRRRPVSPERYSYGTSSSSKRTGSCRRRRQSSSSANSQQGSP PTKRQRSSGRPSGGARRRRRGPPHPSSSQSPDPLKAK
6523	2	1097	ASCQTRRRRTAALDSGERIAGRRSPITALAMASNFDIVKQGYVKI RSRKLGIFRRCNLVFKKASSKGPRRLEKPPDEKAAAYFRNFHKVT ELHNINKNITRLPRETKKHAVAIIPHDETSTKTFACESELEAEWC KHLCECLGTRLNDISLGEPLDLAGVQREQNERFNVYLMPTPN LDYGECTMQITHENIYLWDIHNKVKLVWVPLSSLRRYGRDST WFTFESGRMCDTGEGLFTFQTREGEIMYQKVHSATLAIABQHER LMLEMBQKARLQTSLTEPMTLSKSI SLPRSAVWHHITRQNSVGE IYSLQGNHENRHSDLTGKSKCTSENRFLEENAPLVMYGITHLFD MDTSTCKVVHDL
6524	2	1097	ASCQTRRRRTAALDSGERIAGRRSPITALAMASNFDIVKQGYVKI RSRKLGIFRRCNLVFKKASSKGPRRLEKPPDEKAAAYFRNFHKVT ELHNINKNITRLPRETKKHAVAIIPHDETSTKTFACESELEAEWC KHLCECLGTRLNDISLGEPLDLAGVQREQNERFNVYLMPTPN LDYGECTMQITHENIYLWDIHNKVKLVWVPLSSLRRYGRDST WFTFESGRMCDTGEGLFTFQTREGEIMYQKVHSATLAIABQHER LMLEMBQKARLQTSLTEPMTLSKSI SLPRSAVWHHITRQNSVGE IYSLQGNHENRHSDLTGKSKCTSENRFLEENAPLVMYGITHLFD MDTSTCKVVHDL
6525	1	1859	GESPFSEEEKSIEFNPSSSSGRSARTVSSNSFCDDTGWPSSQSVS PVKTPSDAGNSPIGFPCPGSDGFTKKCTIGMVGEQS IQSRYK KESKSGLVKPGSEADFPSSSSSTGSI SAPEVHMSTAGSKRSSSR NRGPGRSNGASSHKPGSSPSPREKDLLSMLCRNQLSPVNIHP SYAPSSPSSSSNGSYKSGDCSPIMRRSGRYMSCGENHGVPPNP EQYLTPLOQKEVTVRHLKTKLKESBRRRLHRESEI VELKSQLAR MREDWIEEBCHRVQAQLALKEARKEIKQLKQVIETMRSSLADKD KGIQKYFVDINI QNKLESLLQSMEMAHSGSLRDELCLDPPCDS PEKSLTLNPPDITMADGLSLEEQVTGEGADRELLVGDSIANSTD LPDEIVTATTESGDLELVHSTPGANVLELLPIVMGQEEGSSVVV ERAVQTDVVPYSPAISEL IQSVLQKLQDPCPSSSLASPDESEPS MESFPESLSALVVDLTPRNPN SAILLSPVETPYANVDAEVHANR LMRELDFAACVEERLDGVIP LARGGVVRQYWSSSFLVDLLAVAA PVVPTVLMAFSTQRGGTPVYNIGALLRGCCVVALHSLRRTAFR IKT
6526	2	2034	SGRAGEPEEWGRQIIDSKETWIPFNSEDQQLERAYSSGKGCN GRVVPDGGRYDVHLGERMRYAVYWDELASEVRRCTWFKGDKD NKYVPYSEFSQVLEETYMALVTLDEWKKKLESNNREIILHNP KLMVHYQPVAGSDDWGSTPMEQGRPTVKRGVENISVDIHCGEP LQIDHLVFPVHIGIPACDLRFRSIVQCVNDRSVSLNLQTHFK KAQENQQIGRVEFLPVNWHSPHSTGVVDVQLQRIITLPSINRLRH FTNDTILDVFFYNSTPYCQTIQVTVASEMNRITYTLFLQRNPDPK GGVSIAGHSIGSLILFDILTQKDSLGDIDSEKGSINIVMDQGD TPTLEEDLKKLQLSEFFDI FEKEKVDKEALALCTDRDLQIGIP LGPRKKILNYFSTRKNSMGIKRPAPQASGANIPKESEFCSSSN TRNGDYLDVGIGQVSVKYPRLIYKPEIFFARGSPIGMFLTVRGL KRIDPNYRFPCTCKGFENIYHPDPVAYRIEPMVVPGEVEFPMLI PHHKGKRMHLEBLRGLTRMSMDLKNLLGSLRMANKSFTRAPY PALQASETPEETAEPESTSEKPSDVNTEETSVAVKEEVLPIINV GMLNGGQRIDYVLQEKPIESFNEYLPALQSHLCYWESEDTVLLV LKRIYQTQGIPLDQPLQ
6527	1	922	GNVPLLSRLPSDACKIYKQGINIRLDTTLIDFTDMKQQRGDS FIFNGDAAPSESFVVLONBQKVYQRIHHEESEMTTEEVDIILMS SDIYSATLSTKSI SFTRAQTGWLFPREDKTERVCNFLADFYLVNG

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			LVLESRKRREHLSEEDILRNKAIMESLSKGGNIMEQNPEPIRRO SLTPPPQNTITWEEYISAENGKAPHLGRELVCESKKTFFKATIA MSQEPPLGIELLLNVLEVVPFFKHFNKLREFVQMKLPPGFPVKL DIPVPTTATVTFQRFYDFDGSIFTIPDDYKEDPSRFPDL
6528	1	1073	LITGPAAEPRCAADAGMKRALGRKGVWLRRLKTLFCVLGLYIA IPFLIKLCPGIQAKLIFLNFVRVPYFIDLKKPQDQGLNHTCNYY LQPEEDVTIGVWHTVPAVWKNAGQKQDMYEDALASSHIPILY LHGNAGTRGDHRVELYKVLSSLYGHVVTFDYRGWGDVSGTPSE RGMTYDALHVFWDIKARSGDNVYIWHSLGTGVATNLVRRLECE RETTPDALILESPTNIREBAKSHFPVVIYRYPPGDFWFFLDPI TSSGKIFANDENVKHISCPILLHAEDDPVVFQGRKLYSTAA PARSPROFKVQFVPFHSDDLGYRHXYTKSPPELPRILREFLGKSE PEHQH
6529	363	2215	THIRYNKIGVVKTMSCGNEFVETLKKIGYPKADNLNGEDFDWLF EGVEDESFLKWF CGNVNBNQVLSERELEAFSILQKSGKPILEGA ALDRALKTKCTSDLKTPRLDDKELEKLEDEVTLLKLNKLIQR RNKQQLMASVTSKSLRLNAKEEATKKLKQSQGILNAMITKIS NELQALTDEVTOLMMFFRHSNLGQGTNPLVFLSQFSLEKYLSE EQSTAALTLYTKKQFFQGIHEVVESSESQPFNFKIQTSPSICD NQEILEERRELEMARLOLAYICAHQLIHLKASNSSMKSSIKWAE ESLHSLTSKAVDKENLDAKISSITSEIMKLEKEVTQIKORSLPA VVRENAQLLNMPVVKGDFDLQIAKQDYTTARQBLVNLQIKQKA SFELLQLSYEIELRKHRDIYRQLENLVOELSQSNMMLYKQLEML TDPSSVSQINPRTIDTKDYSTRLYQVLEGENKKKELFLTHGN LEEVAEKLKQNISLVQDQLAVSAQEHSSFFLSKRNKDVMDLCDTL YQGGNQLLLSDQELTEQFHKVESQLNKLHLLTDILADVTKRK TLANNKLHOMEREFYVYFLKDEDYLDKDIVENLETQSKIKAVSL D
6530	128	2986	GAHHGATVQVHPLPGSSTIMHDLCLVFPAPAKAVVYVSDIQ RLYIRVVVDKVEIGKTVKAYVRVLDLHKKPLAKYFFPMDLKLRA ASPIITLVALDEALDNYTITFLIRGVAIGQTSLTASVTNKAGQR INSAPQQIRVFPFPRIMPRKVTLLIGATMQVTSBGGPQPQSNIL FSISNESVALVSAAGLVQGLAIGNGTVSGLVQAVDAETGKVVI SQDLVQVEVLLLRVIRIRAPIMRMRTGTQMPIYVTGITNHQNP SFGNAVPGITFHWSTKRDVLDLRGRHHEASIRLPSQYNFAMNV LGRVKGRTGLRAVVKAVDPTSGQLYGLARELSDEIQVQVFEKLQ LLNPEIEAEQILMSPNSYIKLQTNRDGAASLSYRVLDGPEKVPV VHVDEKGFASGSMIGTSTIEVIAQEPFGANQTIIVAVKVSFVS YLRVMSFVLHTQNKALVAVPLGMTVTFVHFIDNSGDVPHAH SSVLNPFATNRDDFVQIGKGTINNTCVVRTVSVGLTLRLVWDAXH PGLSDFMPLPVLQATSPELSGAMVVDVLCIATVLTSLLEGLSGT WSSANSILHIDPKTGAVARAVGSSVTVYEVAGHLRTYKEVVV SVPQIRIMARHLHPITQSPQBATASKVIVAGDRSSNLRGECTPT QREVIQALHPETLISCSQFPAVDFPSPQDVPTVEPQFDALG QYFCSITMHLTDKQRKHLMSKKTALVVSASLSSESHFSTEQVGA EVPPSPGLFADQAEILLNHYTSSEIRVFGAPEVLENLEVKSGS PAVLAFAKEKSPGWPSPFITTYGVLDPAAGSQGPLSTTLTFSSP VTNQALAIPTVAVFVDRRGPGPYGASLFQHFLLDSYQVMFFTLF ALLACTAVMI IAYHTVCTPRDLAVPAALT PRASEGHS PHYFAAS SPTSPNALPPARKASPPSGLWSPAYASH
6531	845	1425	PSASIPPSASPDVVDIRTFCHFLVEDPSVGCISGSEKCTISSS SLCMVITIIYDVKVRIVRGCGQYISYRCQEKRTYFABYVYQA QCCQYDYCNSSPQLQSSLPEDHRPLALPLSDSQIQWYFQAL NLSLELPNPHAGTEPDGLDPMVLTSLNLGLSPAELRRMYLFLNS SGLLVLPQAGLLTPHPS
6532	2	954	AAGPPSEVVNQDSLFPPEPEGPAPQVLGLPGQPGPLTKGVAPPTL

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			ITDSTGTHLVLTVTNKNHSPGLSRGSPQQPSSQPGSPAPAPSA QMDLEHPLQPLFGTPTSLKKEPPGYEAMSQPKQENGSSSQ QMDDLFDILIQSGEISADFKPEPSPGKKEKPSKPTVCNSPLAAQ PPSAELPQAAPPPEGSPSLPGRLDFLESSTGLPLTSGHDGP EPLSLIDDLHSQMLSSTAILDHPSPMDTSELHFVPEPSSMTGL DLADGHLSDMDNLELSSGGPVLSLAPLSTTAPSLFSTDFLDGHD LQLEHWDSC
6533	1798	373	STISWLARVEPPRRSSGVGAARLFPFGSSRLRARACVLALAVL ALLERNNADMSAHSMLCERIAIAKELIKRAESLSRSRKGIEG GAKLCSKLKABLKFLOKVRAGKVAIKESHLQSTNLTHLRAIVES AENLEEVSVILHVFYTDTLGKQTLVVDVVANGGHTWKAIGR KAEALHNINLGRGQYGDKSIIEQAEDFLQASHQPPVQYSNPHIT FAFYNSVSSPMAEKLKEMGISVRGDIVAVNALLDHPBELQPSSES ESDDEGPPELLQVTRVDRENILASVAPTEIRVDVCKRVNLDITT LITYVSALSYGGCHFIKPKVLTQAEQERKEQVLPQLEAFMKD KELFACESAVKDPQSILDTLGGPGERERATVLIKRINVVPDQPS ERALRLVASSKINSRSLTIFGTGDTLKAITWTANSQFVRAANNO GVKFSVFIHQPRALTESKEALATPLPKDYTTDSEH
6534	47	596	KATRFISAAFFVVLNKGQVSPAKLPHTSWSWSLQTLSPFLSGDLA EKSQCFCPCSAMLELIPLLGTHFVLRTARAQSVTQPDTHITVS EGASLELRNYSYGATPYLPWMERTVEEAPILLVCLKPWRVASS LEKKEKEDESPQLLLGSRYNVLKAHCLLPLIRWLTSGLSLLSAQ PHCPQGL
6535	250	964	LKTFTRDVAIQRDLLPKENLETLLTAPLEIDKAFSSHARLS ADATLLTSGTTATVALLRDGIELVVASVGDSRAILCRKGKPMKL TIDHTPERKDEKERIKKCGGFVAMNSLGQPHVNGRLAMTRSIGD LDLTSGVIAEPETKRIKLHADDSPFLVLTDTGINFMVNSQEIW DFNQCHDPNEAAHAVTEQAIQYGTEDNSTAVVVPFGANGKYKN SEINFSSFRSFASSGRWA
6536	242	1174	SLVKEMTNQYGLFKQEOAHDDAIWSVAWGINKKENSETVVTGS LDDLKVKVWQRDERLDLQWSLEGHQLGVVSDISHTLPIAASSS LDAHILRLWDLNGKQIKSIDAGPVDAMTLAFSPDSQYLATGTHV GKVNIFGVESGKKEYSLDTRGKPILSIAYS PDGKYLASGAIDGI INIFDIATGKLLHTLEGHAMP IRLSTFSPDSQLLVTAASDDGYIK IYDVQHANLAGTSLGHASWVLNVAFCPDDTHFVSSSSDKSVKVV DVGTRTCVHTPFDDHQDVWGVKYNGSGSKIVSVGDDQBIHIYDC PI
6537	1638	921	NRFNPPPTQGPDSLVYRPDVPDEVAKDASFNNYTSGLIDRV FTTYKLMHTHTQTVDFVRSKHAQFGGFSYKKMTVMEAVDLDGLV DESDPDVPDVPNSFHAFTAREGIRKAHPDKDNFHLVGLLHDLGKV LALFGEPPQWAVVGDTPPVGCRPQASVVFCDSTFQDNPDLDQPRY STELGMYQPHCGLDRLVMSWGHDEARGGQWGGGRWGTVGCGG AEAVPAGDTLSPQSTCTR
6538	3345	2412	PYLVDFLDALITCQTAPERAFIKLDGLAGMLTBQLRRLTKQVQR ARHNRDDRAIKKAVNEYDETMKEYIPVLMQAQKIYWNLENYPMV EKI PRKSVBFNCNDHVDVWKLNVAVHVLPMQENKYKEAIGFYEPVK KHYDNI LNVSATVLANLCVSYIMTSQNEKAEEIMRKIEKEEBEQI SYDDPNRMYHLICIVNLVIGTLYCAGNYEFGISRVIKSLBPYN KKLGTDTWYAKRCFLSLENMSKHMIVIHDSVIQSCVQPLGHC ELYGTNIPAVIEQPLEEERMHVGKNTVTDERSQLKALIYEIIGW NK
6539	218	339	FLGAASPHPHFSSLAPHPDQPEFTPVQDELAMELWGPV
6540	3	391	LERLWLLLLRRPEDAMAECP TLGEAVTDHPDRLWAEKVVYLDE KQHAWLPLTIEIKORLQLRVLLRRRDVVLGRPMTPTQIGPSLLP IMWQLYPDGRYRSSDSSFWRLLVYHIKIDGVEDMLLELLPDD

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6541	1165	536	RTLVQRRILMLLRKPARGRDLEGRGCTPRGGRKGLLPTDDEFP RFEGGRKPDSDGNREPGPGHEHFRDTPRPDHPHGHSPASRE RSSSLQGMDMASLPKRKPWHDGPGTSEHREMEAPGGPSEDRGG KGRGGPGPAQRVPKSGRSSSLDGEHHDGYHRDEPPGCGPGSGTP SRGGRSGSNWGRGSGNMNSGPFRRGASRGGGGR
6542	3	3775	SWPRGRGETCGHFGALRTRTMQKSVRYNEGHALYLAFLARKEGT KRGFLSKKTAEASRWHEKWFALYQNVLFYFEGEQSCRPMYLL EGCSCBRTAPPAPRAGAGQGGVRDALDKQYYFTVLFGEHQKPLE LRCEEEQDGKEWMEAIHQASYADILIEREVLQKQYIHLVQIVET EKIAANQLRHQLEDQDTEIERLKSEI IALNKTKERMRPYQSNQE DEDDPIKKIKKVQSFMRGWLCCRKNKTIVQDYICSPHAESMRKR NQIVFTMVAESYVHQLYTLVNGPLRPLRMAASSKKPPISHDD VSSIPLNSETIMFLHEIPHQGLKARIANWPTLILADLPDILLPM LNIYQEFVRNHQYSLQVLANKQNRDFOKLLKQYEANPACEGRM LETFLTYPMFQIPRYIITLHELHAHTPHRHVERKSLRFAKSLR ELSRVMHDEVSDTENIRKNLAIERMIVEGCDILLDTSTQTFIROG SLIQVPSVERGKLSKVRIGSLSLKKEGRRQCFLTKHFLICTRS SGGKLHLLKTGGVLSLIDCTLIEEPDASDDSKSGSQVFGHLDP KIVVREPPDRAAFTVLLAPSRQEKAAWMSDISQVDNIRCNGLM TIVFEENSKVTVPHEMIKSDARLHKDDTDICPSKTLNCKVQPIR YASVERLLERLTDLRFLSIDPLNFTLHTYRIFTAAVVLGKLS IYKRPFTSIPVRSLELFFATSQNNRGEHLVDGKSPRLCRKFSSP PPLAVSRTSSPVRARKLSLTSPINSKIGALDLTSSSPTTTTQS PAASPPHTGQIPLDLRGLSSPEQSPGTVEKNVDNPRVDLCNK LKRISQKAVLESAPADRAGVESSPAADTTELSPCRSPSTPRHLR YRQPGQTADNAHCSVSPASAFATAAAGHSGSPGFENNTERTC DKEFIIRRTATNRVLNVLRRHVVSKHAQDFELMNELKMNVLNLE EVLDPDLIPQERKAAANILMALSQDDQDDIHLKLEDI IQMTDC MKAECFESLSAMELAEQITLLDHVIFRSIPYEFLGQGWMLDK NERTPYIMKTSQHENDMSNLVASQIMNYADVSSRANAIEKWVAV ADICRCLHNYNGVLEITSALNRSATYRLKKTWAKVSKQTKALMD KLQKTVSSSEGRFKNLRETLKNCNPPAVPYLGMYLTDLAFIEBGT PNFTIEGLVNFPSKMRMISHIIRIRQFPQOTSRYRIDHQPVAQYL LDKDLIIDEEDTLVELSLKIEPRLPA
6543	1857	950	FVSGCGRAGIGLSWMAAARVSRWYFGGLASCGAACCTHPLDL LKVHLQTQEQVKLRMTCMALRVVRTDGIILALYSGLSASLCRQMT YSLTRFAIYETVRDRVAKGSQGPLPHEKVLGSSVSLAGGPFVQ TPADLVNVRMNDVKLPQGGRRNYAHALDGLYRVAREEGLRRLR SGATMASSRGALVTGQLSCYDQAKQLVLTGGLSDNIFTHFVA SFIAGGCATFLCQPLDVLKTRLMNSKGEYQGVFHCARETAKLGP LAFYKGLVPAGIRLIPHTVLTFFVLEQLRKNFEGIKVPS
6544	630	79	PSPCPIRSRLDQPPMAGLEANLSQNFELHQPSRVRRRASIS BPSDTPPEPRTLNPSPAGWVQHPLELMSSFRERFGRNWLQY RSHLEPSGNPLPATPTTSAPSAPPASSQGPDTAPRPSPOBEAR GPQESPPQKMSEVRARQPREEKEGKEKEEGEMAPLEAHLG EGKQKECP
6545	176	560	PPHSHAALLPAAMTPLTLILVLMGLPLAQALDCHVCAYNGDN CFNPMRCPAMVAYCMTTRTYTTPTRMKVSKSCVPRCFETVYDGY SKHASTTSCQYDLNCTGLATPATLALAPILLATLNGLL
6546	1657	364	HLNLGLDEVAAPFVADLGAIVRKHFCLKCLPRVRPFYAVKCN SPGVKLVLAQLGLGFSKANKAEMELVQHIGIPASKIICANPCQ IAQIKYAAKHGIQLSFDNEMELAKVVKSHPSAKMVLCIATDSD HSLSLCLSLKFGVSLKSRHLENAKHHVEVVGVSFHIGSGCPD PQAYAQSIADARLVFEMGTGLGHKMHVLDLGGGPFGEAKVRF REIASVINSALDLYFPFGCGVDIFARLGRYVTSAPTVAVSIIA KKEVLLDQPGREENGSTSKTIVYHLDGCVGIFNSVLFDNICP

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			TPILQKKPSTEQPLYSSSLWGPVAVDGCDCVAEGLWLPQLHVGDWLVFDNMGAYITVGMGSPFWGTQACHITYAMSRVAWEALRRQLMAAEQEDDVEGVCKPLSCGWEITDTLCVGPVFTPASIM
6547	1	541	LHSKYLAAPALCSQPGMMRCCRRRCRQPPHALRPLLLPLVLLPPLAAAAAGPNRCDTIYQGFACLIIRLGDMSMRGGELTICRSWNDFHACASQVLGGCPEBAAVWESLQOEARQAPRPNLHLCGAPVHVRERGTGSETNQETLRATAPALPMAPPELLAAALALAYLLRPLA
6548	2	219	FVSRLSVRDVREPTFLGCHGADAMHTDPDYSAAYVPIETDAEDGIKCGGITFTLGKGTVEGELKILSRFQNA
6549	73	1490	ETGRVCEADARPACGSRSSRRRRKEAAGIPTSPSSSSPTSSRPARAFSKAPARLSRPRAREPPDPGRXYIQBEIIQARKHKLKMCSSVAAKLWFLTDRIREDYPQKELRALKAKCCEELDFRAVVMDEVVLTIEQGNLGLRINGELITAYPQVVVVVPFPWQSDSDITVLRHLEKMGCRMLNRPQAILNCVNKFWTFQRLAGHGVLPDPTFSYGGHNPFAKMDIARVLEFPVVKNTGRHGRKAVFLARDKHHLADLSHLIRHEAPYLFQKYVKESHGRDVRVIVVGGRVGTMRLCSTDGRMQSNCSLGGVGMNCSLSEQKQLAIQVSNILGMDVCGIDLLMKDDGSPFCVCRANANVGPIAPDKACNLVDAGIADYAASLPSGRRLTRMSLLSVVSTASSETSEPELGPASTAVDNMSASSSSVDSDFESTERELLTKLPGGLFNMNQLLANEIKLLVD
6550	2293	922	FRVSRDGAPODCGIEQMGMLAMEHGGSYARAGGSSRGWCWYLYRYPFLFVSLIQFLIILGLVLFVYGNVHVSTESNLQATERAEGLYSQLLGLTASQSNLTKEINFTTRAKDAIMQMNLNARRDLDRINASFRCCQGDRIYITNNQRYMAAIIILSEKQCRDQFKDMNKS CDALLFMLNQKVKLTLEVEIAKEKTICTDKESVILNKRVAREQLVECVKTRELQHQRQLAKKQLQVQALCLPLDKDKFEMDLRNLNRDSTIIPRLDNLGYNLYHPLGSEILASIRACDHMPSLMSSKVEELARSLRADIERVARENSDLQOKLEAQQLRASQEAQKQVKEBAQAREAKLQAECSRQTQLALEEKAVLRKERDNLAKELKEKKREAEQLRMELAIRNSALDTCIKTKSQPMMPVSRPMGPVPNPQPIDPASLEBPKRKILBSQRPPAGIPVAPSSG
6551	157	748	IQPPDPRNMTLAAYKEKMKELPLVSLFCSCFLADPLNKSSYKYEADTVDLNWCVISDMEVIBLNKCTSGQSFVILKPPSFDGVPFEPNASELPRRRDPSLEETQKKLEAAEERRKYQAEKLLKHLAEKREHEREVIQKAEENNNFIKMAKEKLAQRMESNKENREAHLAAMLERLQEKDKHAEVRKKNKELKEASR
6552	157	748	IQPPDPRNMTLAAYKEKMKELPLVSLFCSCFLADPLNKSSYKYEADTVDLNWCVISDMEVIBLNKCTSGQSFVILKPPSFDGVPFEPNASELPRRRDPSLEETQKKLEAAEERRKYQAEKLLKHLAEKREHEREVIQKAEENNNFIKMAKEKLAQRMESNKENREAHLAAMLERLQEKDKHAEVRKKNKELKEASR
6553	2	1807	FVSRMAAHLISYGRVNLNVLREAVRRELREFLDKCAKATVWD EYLTGPFGLIAQYSLLKEHEVEKMFLLKGNRLPAADVKNIIFFVRPRLELMDI TAENVLSEDRRGPTTRDPHILFVPRRSLLCBQRLKDLGVLSFIHREBYSLDLIPFDGDLISMESEGAFFKCYLEGDQTS LYHAAGKMTLQALYGTTPQIFGKGECAQVANNMIRMKREFTG SQNSIFFVFDNLILLDRNVDLLTPLATQLTVEGLIDEIYGIQNS YVKLPPEKFAPKKQGGGKDLPTRAKKLQLNSAERLYAETIRDKN ?NAVGSVLSSKAKIISAFAFEERHNAKTVEIKQFVSQPLPHMQAARGSLANHTSIABLIKDVTTSEDFDKLTVEQEFMSGIDTDKVVNIYIEDCIAQKHSILIKVLRVCLQSVCSNGLKQKVLDYKREILQTYGYEHILTLENLEKAGLLKPQTGGRNNYPTIRKTLRLWMDVNEQNPTDISYVYSGYAPLSVRLAQLLSRPGWRSIEEVLRITLPGPHFBRQPLPTGLQKKRQPGENRVTLIFFLGGVTFAETAAALRFLSQL EDGGTRYVIATTKLMNGTSWIEALMEKPF

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6554	119	1244	FEMGSQVSVESGALHVVIVGGGFGGIAAASQLOALNVFFMLVDM KDSFHHNVAALRASVETGPAKKTFFISYSVTFKDNFRQGLVVGID LKNQMVLQGGGALPFSHLILATGSTGPPGKFNVEVSSQQAIIQ AYEDMVRQVQRSRFIVVVGGSAGVEMAARIKTEYPEKEVTLIH SQVALADKELLPSVRQEVKEILLRKGVLILLSERVSNLEELPLN EYREYIKVQTDKGTAVATNLVILCTGIKINSSAYRKAFESRLAS SGALRVNEHLQVEGHSNVYAIGDCADVTPKIMAYLAGLHANIAV ANIVNSVKQRPLQAYKPGALTFLLSMGRNDGVGQISGFYVGRIM VRLTKSRDLFVSTSWKTMRSPP
6555	1552	498	IHMALLRKINQVLLFLLLIVTLVILYKKVHKGTVPKNDADDESE TPEELREIIPVVICAAAGRMGATMAAINSISNTDANILFPVVG LRNTLTRIRKWIHSKLRINFKIVEFNPMLGKGIKIRPDSSRPE LLQPLNFRVFPYLLIHLQHEKVIYLLDDVIVQGGDIQELYDTTLA LGHAAPSDDDCLPSAQDINRLVGLQNTYMGYLDYRKKAIDKLG ISPSTCSFNPGVIVANMTWKHQRITKQLEKWMQKNVEENLYSS SLGGGVATSPMLIVFHGKYSTINPLWHIRHLGWNPDARYSEHFL QKALLHNNGRHKPWPDPFVHNDLWESWFPDPAGIFKLNHHS
6556	241	1449	ASLCKGCFVTVLVIILPQLSQSPTFFGLLDIDGVLVRGHRVI PAALKAFRRVNSQGLRVFVFTVAGNIIQHSKAQELSAIIQ CEVDADQVILSHSPMKLFSEYHEKRLVSGQGPMVENAQGLGR NVTVDELRLMAFPLLDMVDLERRLKTTPLEPNDFPRIEGLVLLG EPVRWETSLQIMDVLLSNGSPGAGLATPPYPLPVLASNMDDL WMAEAKMFRFGHTFLCLLETIYQKVTGKELRYEGLMCKPSILT YOYAEGLIRRAERRGWAAPIRKLAVGDNPMDSVYGANLFHQY LQKATHDGAPELGAGGTQQQPSASQSCISILVCTGVYNPRNPQ STEPVLGGGEPFFHGRDLCPSPGLMEASHVVNDVNEAVQLVFR KEGWALE
6557	2598	1534	RMCGRTSCHLPRDVLTRACAYQDRRGQRLPEWRDPDKYCPSYN KSPQSN9PVLRLHFEKDDADSSERIAPMRWGLVPSWFKESDP SKLQFNTTNCSDTVMEKRSFKVPLGKGRRCVVLADGFYEWQRC QGINQRQPYFIYFPQIKTEKSGSIGAADSPENWEKVDNWRLLT MAGIFDCWEPPEGGDVLYSYTIITVDSCKGLSDIHRMPAILDG EBAVSKWLDGFEVSTQKALKLIHPTENITFHAVSSVVNNSRNT PECLAPVDLVVKELRASGSSQRMQLQWLATKSPKKEDSKTPQKE ESDVPOWSSQFLQKSPLPKRGTAGLLEQWLKREKEEPVAKRP YSQ
6558	21	1138	FHGRRRGGRKMEGLGSLGGRGAAREEGEPVKKRRLLCVRFAS VASCDAAVAQCFLAENDWEMERALNSYFEPPEESALERPETI SEPKTYVDLTNEETDSTTSKISPSDETQENGSMFSLITWNID GLDLNLSERARGVCSYLALYSPDVIFLQEVIPPYYSYLKKRSS NYRIITGHEEGYFTAIMLKSRVCLKSQEIPFPSTEMMRNLLC VHVNSGNELCMTSHLESTRGHAAERMNQLKMLKMKQAPES ATVIFAGDTNLRDREVTROGGLPNNIVDVWEPLGPKKHCQYTND TQMNSNLGITAAACKLRFDRIFFRAAAEBGHIIPRSLDLLGLEKL DCGRFSPDHNGLLCNLDIIL
6559	3	364	GPGLSGLPTRPKKLKANQTPIAMDCASRSCSVPTGPATTICSS DKSCRCGVCLPSTCPHTVWLLPPTCCDNCPPCHIPQPCVPTCF LLNSCQPTPGLTLLNTTFTQPCCEPCLEPRGC
6560	3	1435	TATSGGIWLRKRWCHWRPLPQSCVGTGGLQVRDTSRIAGK GVDHTKMSLHGASGGHERSDRRSSDRSRDSSHERTESQLTPC IRNVTSPTRQHHVEREKDHSSSRPSPRPQKASPNGISAGNS SRNSSQSSSDGCKTAGEMVFFYENAKGARNIRTSERVTLIVD NTRFVVDPSIFTAQPNMTLGRMFGSGREHNPTRPNKEGEBEYVAR GIGSTVFRAILDYKGTGIRCPDGISIPELREACDYLCISFEYS TIKCRDLSALMHLNSNDGARRQFEBYLEMILPLMVASAQSGER ECHIVVLTDDDDVDWDEKYPQMGEEYSQIIYSTKLYRFFKYIE

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			NRDVAKSVLKERGLKKIRLGIEGYPTYKEKVKRRPGGRPEVTYN YVQRPFFIRMSWEKEEGKSRHVDFOCVKSKSITNLAAAAADIPQD QLVVMHPTPQVDELDILPIHPPSGNSDLDPDAQNPM
6561	3	1086	PGRRFRKRSSSRWFADCLLGLRGFPASSLLSPSPSPSWFHS PCPMAALTDLSPMYRWFKNLVCNLSEKVFITGCDSCGPNLL AKQLVDRGMQVLAACFTEBGSQKLQRDTSYRLQTTLLDVTKSES IKAAQWVRDKVGEQGLWALVNNAGVGLPSGENEWTLDKDFVKV INVNLVGLIEVTLHMLPMVKRARGRVNMSSSGGRVAVIGGGYC VSKPGVEAFSDSIRRELYYFGVKVCIIEPGNYRTAILGKENLES RMKRLWERLPOETRDSYGEDYFRIYTDKLNIMQVAPRVRDVI NSMEHAIVSRSPRIYNPGLDAKLLYIPLAKLPTPVTDFTLSRY LPRPADSV
6562	1	1562	MSTLYDIRAHKAQLLRFPASSDENKALEQRRTLTHTPKLEHLDRV LYEWFLGKRSEGVFVSGPMLIEKARDFYEQMLTEPCVFSGGWL WRFKARHGIKKLDASSEKQSAHQAAEQFCAFFRSLAAEHGLSA EQVYNADETGLFWRCILPNPTPEGGA VPGPKQKDRLTVLMCANA TGSRLKPLAIGKCSGPRAFQIQLHPVAYKAQGNANVDKEIFS DWFHIFVPSVREHFTIGLPEDSKAVLLDSSRAHQEAELVS SNVFTIFLPASVASLVQPMQGIKRRDFMRNPINPPVPLQGGPHAR YNNMDAIFSVACAWNAVPSHVFRRAWKRLWPSVAFAGSSSEEE LEACEFPVKPHNKSFAHILELVKEGSSCPGQLRQQAASWGVAG REAEGCRPPAATSPABVVWSSEBTPKADQDGRGDPGEGEVAVE QAAVAEDAVLRFAERQPCFSAQEVGQLRALRAVFRSQQVRRRR GALGAUVKVEALQEGPGCGGATAQSPLPCSSTAGDN
6563	1319	2694	LARPAQVLLREBEGAGPPVPAAGHLVHLLQGGHLRERAHDPLEA HEHPLPCDOMFWRQMGHLLRMVEANSRGVVGIGYDHTAWVYTG GYGGGCFQGLASSTSNITYQSDVKCVHIYENQRWNPVTGYTSRG LPTDRYMWSASGLQECTKAGTKPPLQWAWVSDWFDVFSVEGG TDQEGWQYASDPPASVHGSKTMKDFVRRRCWARKCKLVTSGPWL EVPPIALRDVSIIPESPGAEGSGHSIALWAVSDKGDVLCRLGVS ELNPAGSSWLHVGTQDPFASISIGACVQVWAVARDGSAFYRGSV YPSQPADGCWYHIPSPPRQLKQVSAGQTSVYALDENGNLWYRQ GITPSYPQSSSEHVSNNVCRVSVGLDQVWVIANKVQGSLSLS RGTVCHRTGVQPEHPKGGHWDYIGGGWDHISVRANATRAPRSS SQEQEPSAPPEAHGPVCC
6564	1	975	APGSCALWSYCGRGWSRAMRGCOLLGLRSSWPGDLSARLLSQE KRAASTHFGPETVSEEEKGKVYQVFESVAKKYDVMNDMMSLGI HRVWKDILLWKMHPLEGTQLLDVAGGTGDIAPRFLNYVQSQHQR KQKRQLRAQONLSWEEIAKEYQNEEDSLGGSRVVVCINKEMLK VGKQKALAQGYRAGLAWVLGDAEELPFDDDKFDIYTLAFGIRNV THIDQALQSAHRVLKPGGRFLCLFESQVNNPLISRLYDLYSPQV IFVLGEVIAGDWKSYQYLVESIRRFPSQEEFKDMIEDAGPHKVT YESLTSGIVAIHSGFKL
6565	1464	999	RSAVANGLTKRRMGLKNGRYISLILAVQIAYLVQAVRAAGKCD AVFKGFSDCLLKLGDSMANYPQGLDDKTNIKTVCTYWEDFHSCT VTALTDQCEGAKDMWDKLRKESKNLNIQGSFLFCGSGNGAAGS LLPAFPVLLVSLAALATWLSF
6566	3	1385	KYESAQPGGTQPEPGLGARMATHKALVMCLGLPLFLPPGAWAQG HVPPGCSQGLNPLYNLCDRSGAWGIVLEAVAGAGIVTTFTVLT ILVASLPFVQDTKKRSLLTQVFFLLGTGLGLFCLVFACVREKPDF STCASRRFLFGLFALCFSLAAHVFAINFLARENHGPGRGVIF TVALLLTVEVIINTEWLIITLVRSSEGGPQGNSSAGNAVASP CAIANMDFVMAIYVMLLLGLGAWPALCGRYKKRWKRGVVF LLTTATSVAIWVWVIMYTYGNKQHNSTPNDPTLALALANAN AFVLEFYVIEVSQVTKSSPEQSYQGDMPYTRGVGYETILKEQKG QSMFVENKAFSMDPEVAARKRPVSPYSGYNGQLLTSVYQPTMAL

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			MHKVPSEGAYDIILPRATANSQVMGSANSTLRADMYSAQSHQA ATPPKDGKNSQVFRNPYVWD
6567	125	863	TKRSNLKAYACSIIHIRTMSYVFNVDSSQTNVPLLQACIDGDFN YSKRILLESFGDPNIRDSRGRTGLHLAAARGNVQICQLLHKFGAD LLATDVQGNATLHLGCHVDTIQPLVSNGLKIDICNHQGATPLVL AKRRGVNKDVIRLLESLEEVEVKGFNRGTHSKLEMTQTAESRSA MHSLSLLNPNLQQGEGVLSFRFTWQEFVEDLGFWRVLLLIFFVI ALLSLGIAYVSGVLPFVENQPBVLH
6568	3	1183	HASDRLLVLPDNYSHFSQASANLQGPSRTTELPHPTLASISSPM LEGARLYFNVHDHGLEGLVGRCKASLLTQDDYINLVQCETLEDL KIHLLQTTDYGNFLANHTNPLTVSKIDTEMKRRLCGEYFRNHS LEPLSTFLTYMTCSYVIDNVILLMNGALQKKSVEKILGKCHPLG RPTMEAVNIAETPSOLFNAILLBTPLAPFPQDCMSNALDELN IELLRNKLYKSYLEAFYKPKCNHGDVTAEMVCPILFEADRRRAF IITLNSFGTELSKEDRETTYPTFGKLYPGLRLLAQAEFDOMK NVADHYGVYKPLFEAVGGSGGKLTEDVFYEREVQMNVLAFNRQF HYGVFYAYVKLKEQETRNIVWIAECISQRHRTKINSYIPIL
6569	205	1532	RRRGPRQLGHGRPTPLCRNRTAGPSHWEKQARAFQGLRPVDPDR RMSWLPPLTKSASSAAGSPGGLTSLQQQKORLIESLNSHSSI AEIQKDVYRLPPTINNLTININILLPPQFPQKPVISVYPPPIR HHIMDKQGVYVTSPLVNNPTMHSDLGKIIQSLLDEFWKNPPVLA PTSTAPPYLYSNPSGMSPYASQGFPLFPYPPQANRSITLSLV ADTVSSSTTSHTTAKPAAPS*GVLSNLPLPIPTVDASIPTSQNG FGYKMPDVPDAPPELSLSVSQITDMNEQEEVLLLEQPLTLPLQLK QIITDKDDLKVSIEELARKNLLLEPSLEAKRQTVLDKYELLTQM KSTFKKMQRQHELSESCSASALQARLKVAHAHAERSDNTAED FLEGKMEIDDFLSSPFMEKRTICHCRRAKEEKLQQAIAHMSQFHA PL
6570	330	1304	ARLPRLTFLREGFLYVLLSHWVVGAPRPPASDSWKKGLVPSAP PASRMKGSKALPAPIPLHPSLQLTNYSFLQAVNTFPATVDHLQF LYGLSAVQTMHMHWTLYGPNVHEITRSTITEMAAAGLVDAR? PPPALPFTTHLPHKQGAIAHVLPAHKKDRPRDFANLAVAATQ EDPPKMGDLKSLSPGLGSPISGLSKLTPDRKPSRGRLEPSKTKKE FICKPCGRHFTKSYNLLIHERTHTDERPVTCDICHKAFFRQDHL RDHRYIHSKEKPFKQBOGKGCQSRITLAVHKTLEMOTSSPTAA SSAAKCSGETVICGT
6571	169	656	APDMNRKKLQKLTDTLTNCKHLFRGFDKNDGCVNVLEWIGHL SLFLRGSLEKMKYC*FEVFDLNGDGFISKEMFMHLKNSLLKQP SEEDPDEGIDKLVETLKKMDHDHDKLSFADYELAVREETLLL EAFGPCPLDPKSKQMEFPAQVFKDPNEFNDM
6572	49	1646	TPERAQPGALIGAAGCCVCGGRWPRSHERGYPSSAKMGSKRRN LSCSERHQKLVDENYCKLHVQALKNVNSQIRNMVQNEQNDNRV QRKQFLRLQNBQFELDMBEAIAKAEENKRLKELQLKQEEKLAM ELAKLKHESLKDEKMRQVRENSIELRELEKLLKAYMNERAA QIAEKDAIKYEQMKRDAEIAKTMMEHKRIIKEENAAEDKRNKA KAQYYLDLEKQLBEQEKKKQAYEQLLKEKLMIDEIVRKIYRED QLEKQKLEKMNAMRRYIEFOKEQALWRKKRBEEMEEENRKII EFANMQQREEDRMKVORNEEKRLQLQNALTQKLEMLRQRED LEQVRQELYQEBQABIYKSKLEBAEKKLRKQKEMKQDFEBQMA LKEVLQAABEENFRKTMKFAEDDRIELMNAQKORMKQLE HERRAVERKITEERROQLADKQRELEEWQLQORROGFINAIIEBE RLKLLKRBHATNLLGYLPKGVFKEDDIDLLEGEFRKVVYQQRSEI CEEK
6573	767	275	GGGGESQSFRADGTRTPATDCLMYLQGPRLMTQGGYDMVQK LFLDFFRRRLSQRPTABELEQRNLIKPRNBQEBQEBKREIKRRL TRKLSQRPTVELRERKILIRFSDYVEVADAQDYDRRADKPWTR

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6574	204	1159	<p>LTAADKVSRRGECWVGGRTVCWVSIGSLGVS</p> <p>LESSVPVSVGVFWACGVSWTGAAGLQDGALSDTMARNAEKAMTA LARFROAQLEBEGVKERRRPFLLASECTELPKAEKWRRIIGIEISK KVAQIQNAGLGEFRIRDLNDEINKLLREKGHWEVRIKELGGPDY GKVGPKMLDHEGKEVPNGRGYKYFGAAKDLPGVRELFEKEPLPP PRKTRAEMLKALDPFYGYLDEDDGVIVPLEQEYEEKLLRAELVE KWKABREARLARGEKKEEEEEEEINIYAVTEESDEEGSQKKG GDDSQKFIAHVVPVPSQOETEEALVRRKKMELLQKYASETLQQA SEEARRLGY</p>
6575	117	820	<p>SPALASQSGGITTEBKMLEPQENGVIDLPDYEHVEDETFFFFPPP ASPERQDGEETPEDEESGNGAPVPPVPPKRTVKRNIPKLDQORLI SERGLPALRHVFDKAKFKGKGHEAEDLKMLIRHMEHWAHRLFPK LQFEDPIDRVEYLGSKKEVQTCCLKRIRLDLPILHEDFVSNNDIV AENNEHDVTSTELDPFLTNLSESEMFASELSISLTEEQQORIER NKQLALERROAKLP</p>
6576	1	1060	<p>PEPQALVQGKRGALRLVARLVLTVSAPAEVRRRLRPLVLSWMD RETRALADSHFRGLGVDVPGVQACGRVAFVSEPGAFSYADFVR GFLLPNLPCVPFSAFTQGWGSRRRVWTPAGRPFDFHLLRTYGDV VVPVANCGVQEYNSNPKEHMTLRDYITYWKEYIQAGYSSPRCL LYKDHLCRDFFVEDVFTLPVYFSSDWLNEFDALDVEDDYRFVY AGPAGSWSPFHADIPRSFSWSVNVCGRKKMLLPPGOEALRDR HGNLPYDVTSPALCDTHLHPRNQLAGPPEITQEAGEMVFPVSG WHHQVHNLVMCCFSCPLSGAFLQEDGSTTSPLSQPELGWNGVAH G</p>
6577	2271	987	<p>SDRMASDDFDIVIEAMLEAPYKKEEDEQORKEVKKDYPNNTSS TSNSGNETSGSSITIGTSNRSRDRDRYRRRRNSRSRSPGQRCHR SRSDRRHSGESRSRDRHREDRVHYRSPPLATGYRYGHSKSPHF REKSPVREPVNDLSPBERDARTVFCMQLAARIRPRDLDFFFSAV GKVRDVRIISDRNSRRSKGIAYVEFCEIQSVPLAIGLTGQRLLG VPIIVQASQAENKRLAAMANNLQKNGGPMRLYVGSLEHFNITD MLRGIFFEPFGKIDNIVLMKDSITGRSKGYGFIITPSDSECARRAL BQLNGFRLAGRPMRVGHVTERLDGGTDITFPDGDQELDLGSAGG RFQLMAKLAEGAGIQLPSTAAAAAQAALQLNGAVPLGA LNPAALTALSPALNLASQCLQLGSLPTQTM</p>
6578	377	1489	<p>PSSSATMNRAPLKRATILHMAITGASDPASAEAEANGKPFLLRA LQIALVVSILYWVTSISMVFLNKYLLDSPSLRLDPTIFVTFYQL VTTLCKGLSALAACCPGAVDFPSLRLDLRVARSVLPLSVVFIG MITFNNLCLKYGVGAFYNVGRSLTTFVNVLLSYLLKQTSFYFA LLTCGIIIGGFHLGVDQEGAEGTLSWLGTVFGVLASLCVSLNAI YTTKVLPAVDGSIWRLTFYNNVNACILFLPLLLLLGLQALRDF AQLGSAHEFWGMMTLGLLPGFAIGYVTGLQIKFTSPLTHNVSGTA KACQTVLAVLYYEETKSFLWNTSNMMVLGSSAYTNVRGWEMK KTPREPSPKDSEKSMGV</p>
6579	2	711	<p>RPPRVWYPELRELSAAAPRWSHRTAPGIMVFYFTSSSVNSSAYT IYMGKDKYENEDLIKHGWPEDIWFHVDKLSSAHVYLRHLKGENI EDIPKEVLMDCALHVKANSIQCKMNNVNVVYTPWSNLKKTADM DVQIQIFHRQKDVKIIVTBKKVNEILNRLEKTKVERFPDLAAEK ECRDREERNEKKAQIQEMKKREKEEMKKKREMDLRYSYSLMKV ENMSSNGDGNDSDBFM</p>
6580	62	1571	<p>LVALKNWKPKGTNIPAPQSPVFGRAVSGVYMMTKVLGMAPVLGP RPPQEQVGPLMVVKEEKEEGKYLPSLEMFRRQRFQGYHDTGP PREALSQIRVLCCENLRPEIHTKEQILELLVLBQFLPTILPQELQ AWVQEHCPESAEEAVTLEDLEREDEPHGQVSTPNEQKFPWE KISSSGTAKESPSSMQPQPLETSHKYESWGPLYIQESGEEQEP QDPRKVRDCRLSTQHEESADEQKGSBAEGLKGDIIISVI IANKPE ASLRQCVNLENBKGTKPPLQAGSKKGRESVPTKPTPGERRYI</p>

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			CAECGKAFNSSSNLTKHRRTHTEGKPYVCTKCGKAFSHSSNLTLYHRTHLVDRPYDCKGKAFQSSDLLKHORMHTEAPYQCKDCGKAFSGKGSLLRHVRIHTGEKPYQCNECGKSPSQHAGLSSHQRLHTGEKPYKCEGKAFNHSSNFNKHRIHTGEKPYWCHHCCKTFC SKSNLSKHQVRHTGEGEAP
6581	228	476	RVFLKDLSSTPMASNNTASIAQARKLVEQLKMEANIDRIKVSKA AADLMAYCEAHAKEDPLLTTPVASENPFREKKFFCAIL
6582	1428	718	CFITKTHCSFVSPVYPLSPLVLRKELESILLENEGDQVIHTSSFIN QHPITFWTLVWYFRRLDLPNSLPGILITSEHCNEGVQLPLSSLS QDSKLVYIQLLDNINLHQEPREPLYVSWRNFNSEKSSLLSBE QQETSTLVETIRQSIQHNNVLEPINLLSQMKPGMKRORSLYRE ILFLSLVSLGRENIDIEAFDNEYGIAYNSLSSEILERLQKIDAP PSASVEWCRKCFGAPLI
6583	487	41	RIFSMTSGRLRWCTWRPATALWSASLRIGTSSMHPSRSTSLP LSMMLSPSPNTRGLSPALTFRSPDSEHATSCPRHLWRCRAPL RSPSPILGRQLVLRSPPLVHVTNHSKGKVLGLQVQRSRSGTGAC SQAGSGAVQCCNWCIF
6584	189	1750	PLPMAALGPSSQNVTEYVVRVPKNTTKKYNIMAFNAADKVNFAF WQARLERDLNKKIYQEEEMPESGAGSEFNRLRBRARRKKYK IVLKFRPREDQFWLLRVNGKSGRKFKGKKGVTENTSYYIFTQ CPDGAFAEPVHNWYNTPLARHRTLTAEEAEZEWEERNKVLNH FSIHQRRLLKDDQDDDEEKEKRRGRKASLRIDHLDLDDLEMS SDASDASGEGRVPAKAKKAPLAKGGRKKKKKGSDDEAFEDS DDGDPEGQEVVDYMSDSSSSQEEPESSKAKAPQEEGPKGVDEQS DSESESEERKPPDEDKKEEKKKAPTQEKRRKDSSESDSS ESDIDSEASSAFMAKKKTPPKRERKPSGSSRGNSRPGTSPA EGGSTSTLRAAASKLEQCKRVSEMPAAKRLRLDTGPQSLSGKST PQPPSGKTTFNSGDVQVTEDAVRRYLTRKPMTTKDLLKKPQTKK TGLSSEQTVNVLAQILKRLNPERKMINDKMHFSLKE
6585	3	1678	GPTRNSRIDDFVGGDPRAEASCVLHSPKHAMADSRDPASDQMQ HWKBQRAAQKADVIITGAGNPVGDKLNVITVGPGRGPLLVQDVVF TDEMAHFDORRRIIPERVVHAKGAGAGFYFEVTHDITKYSKAKVFE HIGKKTPIAVRFPSTVAGESGSADTVRDPGRFAVKFYTEDGNWDL VGNNTPIFFIRDPILPSPFIHSQKRNPTHLKDPDMVWDFWSLR PESLHQVSFLPSDRGIPDGHHRMNGYGSHTFKLVNANGREAVYCK PHYKTDQGIKNLSVEDAARLSQEDPDYGIKRLDLPNAIATGKYPSTW TFYIQVMTFNQAEFTFPNPPDLTKVWPHKDYPLIPVGKLVLRN PVNYFAEVEQIAFDPSNMPPGIEASPDKMLQGRLEAYPDTHRRH LGPNYLHIPVNCPPYRVRVANYQRDGPMDQNDQGGAPNYYPNPF GAPEQQPSALEHSIQYSGEVRENTANDDNVTQVRAFYVNVLE EQRKRLCENIAGHLKDAQIPIQKAVKNFTEVHPDYGSHIQALL DKYNAEKPKNAIHTFVQSGSHLAAREKANL
6586	32	804	PLPEQPAESTSTMPVSGTPAPNKKRKS SKLIMELTGGQBS SGL NLGKKISVPRDVMLELSLLTNRGSKMFKLRQMRVEKFTYENHP DVFSDSSMDHFKFLPTVGGQLGTAGQGSYSKSNRGGSQAGG SGSAGQYGSDDQHHLGSGSGAGGTGCPAGQAGRGAAGTAGVGE TSGSDQAGGEGKHITVFKTYISPWERAMGVDPPQKMBELGIDLLA YGAKARLPKYKSFNRTAMPYGGYEKASKRMTFQMPKV
6587	75	1117	RRVPSLGKMPCEWDGEHDIETPYGLLHVVIAGSPKGNRPAILTY HDVGLNHLKCFNTFFNFEDMQEITKHFFVCHVDAPGQQVQASQF PQGYQFSPMEQLAAMLPSVVQHFGFKYVIGIGVAGAYVLAKFA LIFPDLVEGLVLVNDIPNGKWDWAATKLSGLTSLPDTVLSH LFSQRELVNNTLVQSYRQQIGNVVNOANLQLFWNMYNSRRDL D INRPGTVPNAKTLRCPVMLVVGDNAPAEADVVECN SKLDPTTTT FLKMA DSGGLPQVTQPGKLTFAFKYFLQGMGYMFSASMTLRARS RTASLTSASSVDGSRQACHTSSESSEGLQVNHIMEVSC

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6588	137	501	LG LQAQLLELR TNNTNYQLSDELKRNQVELTSLRQKVA YLDKEFSK AQKALSKSKKAQEVEVLLSENEMLQAKLHSQEFDFRLQNSTLMA BFSKLCSQMEQLEQBNQQLKEGAAGAGVQAQGP
6589	2	1405	RPWGSAMATFSRQEFFQQLLQGCCLLPTAQQGLDQIWLILAICLA CRLLWRLGLPSYLKHA STVAGGPFSLYHFFQLHMVWVLLSLLC YLVLFLCRHSSHRGVLSVTILYILMGEHMHVDTVTWKKMRGA QMIWAMKAVSLGFDLDRGVBGTVPSPVEFMGYLYFVGTVIVGPGW ISPHSYLQAVQGRPLSCRNLQKVARSLALALLCLVSTCVGPYL PPYFIPLNGDRLLRNKKRKARGTMVRWLRAYESAVSFHFSNYFV GFLSEATATLAGAGPTEKKDHLBNDLTVSKPLNVELPRSMVEVV TSWNLPMSYWLNNYVFNALRLGTFSAVLVYASALLHGFSPH LAAVLLSLAFITYVEHVLKRILARILSACVLSKRCPPDCSHQR LGLGVRALNLLFGALAI PHLAYLGSLEFDVDDDTTEEQGYGMAY TVHKNSEL SWASHWVTFGCWIFYRLIG
6590	2177	656	VRAYEHVLSLLENVFTPMFCHRDYFRQLLRGAESPTRNSKLN GSLSLDDFRNTQKRGESFGISRGSKIKGVPKSTMEGAMLPNY GVAEGEDDFIEGIVVMEDDSPVEAVSTPNTPRNLAAWKISIPY VDFFEDPSSERKEKKERIPVFCIDVERNDRAVGHPEHWSVYR RYLEFFYVLESKLTEFHGAFFDAQLPSKRIIGPKNYEFLKSKRE PQBYLQKLLQHPELSNSQLLADFLSPNGGETQFLDKILPDVNLG KIKSVPGKLMKEKGQHLPEFFIMNFINSCESPKPKPSRPELTIL SPTSENNKKLPNDLFKNANRAENTERKQKNYFMEVMTVEGVY DYLMYVGRVVPQVPDWLHLLMGTRILFRNTLEMYTDYLLQCKL EQLPQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAQTFEEM MNYIPDLLVKCIGEBTKYESIRLLFDGLQQPVLNKQLTYVLLDI VIQELFPPELNKVQKEVTSVTSWM
6591	2177	656	VRAYEHVLSLLENVFTPMFCHRDYFRQLLRGAESPTRNSKLN GSLSLDDFRNTQKRGESFGISRGSKIKGVPKSTMEGAMLPNY GVAEGEDDFIEGIVVMEDDSPVEAVSTPNTPRNLAAWKISIPY VDFFEDPSSERKEKKERIPVFCIDVERNDRAVGHPEHWSVYR RYLEFFYVLESKLTEFHGAFFDAQLPSKRIIGPKNYEFLKSKRE PQBYLQKLLQHPELSNSQLLADFLSPNGGETQFLDKILPDVNLG KIKSVPGKLMKEKGQHLPEFFIMNFINSCESPKPKPSRPELTIL SPTSENNKKLPNDLFKNANRAENTERKQKNYFMEVMTVEGVY DYLMYVGRVVPQVPDWLHLLMGTRILFRNTLEMYTDYLLQCKL EQLPQEHRLVSLITLLRDAIFCENTEPRSLQDKQKGAQTFEEM MNYIPDLLVKCIGEBTKYESIRLLFDGLQQPVLNKQLTYVLLDI VIQELFPPELNKVQKEVTSVTSWM
6592	3	1861	APEFLGSTISSGSMIDANLKLQRAEORLKAIVAEKFAIATKEG DLQVVERFFKIFPLGLHEEGLRKFSEYLCKQVASKAERNLLMV LGTOMSDRRRAVI FADTLTLLEGIARIVETHQPIVETTYGPGR LYTLIKYLQVRCRQVEKVVDKFIKQDYHQQFRHVQNNLMRNS TTEKIEPRELDPILTEVTIMNARSLEYLRLFKRISSDPEVGD MASEEVKQEHQKCLDKLLNNCLLSCTMQELIGLYVTMEBYFMRE TVNKAVALDTYKGLTSSMVDVFIYVKKCIGRALSSSIDCL CAMINLATTELESDFRDLCKNLRMGFPATTFOIQRGVTSAVN IMHSSLOQGRFDTKGISTDEAKMSFLVTNNVEVCSENI STLK KTLES DCTKLFSQIGGQQAQAKPDSCLDLAAVSNKFRDLLOE GLTELNSTAIKQVQPWINSFVSHNIEEEEFNDYEANDPWVQ QFILNLEQMAEFKASLSPVIYDSL TGLMTSLVAVLEKVVLS TPNRLGGLQFDKELRSLIAYLTVTWTIRDKFARLSQMATILN LERVTEILDYWGPNSGPLTWRLTPAEVRQVLALRIDFRSEDIKR LRL
6593	3	1837	EAFSAGSRRRGLALQRGVGLGGYCPCCRRRGRLLVLLLVLR RGEGGGGGRGDKRRRRQARRRRRPPAKARGGKMADVLSVL RQYNIQKKEIVVGDEVI FGEFSWPKNVKTNVYVWGTGKEGQPR

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			EYTTLDSILFTLNNVHLSHPVYVRRRAATENIPVVRPRDRKDLIG YLNGEASTSASIDRSAPLEIGLQRSTQVKRAAEVLARAKKPRI EDEECVRLDKERLAARLEGHKEGIVQTEQIRSLSEAMSVERKIAA IKAKIMAKKRSTIKTDLDDITALKQRSFVDAEVDVTRDIVSRE RVWRTRTTILQSTGKNFSKNI FAILQSVKARREGRAPEQRPAAP AAPVDPITLRTKQIPAAAYNRYDQERFKGKEETEGFKIDTMGTIYH GMTLKSVTGASARKTQTAAQPVPRPVSQARPPPNQKKGSRTPI IIPAAATSLITMLNAKDLLQDLKFVPSDEKKKQGCQRENBTI IQRRKQMQPGGTASVTVPYRVVDQPLKLMPODKDRVVAVFVQ GPANQFKGWFWLLPDGSPVDIFAKIKAFHLKYDEVRLDPNVQKW DVTVLELSYHKRHLDRPVFLRVWETLDRYVMVKKHSHLRF
6594	1	1096	EFPPRRFRFGSQASPLCATCGPALLRAPTRAAMTRSLFKGNFWSA DILSTIGYDNI IQHLNNGRKNCKEFEDFLKERRAAIBERYGKDLL NLSRKKPCGQSBINTLKRALVFPKQVDNVAQCHIQLAQLSREE ARKMBEFREKQKLQRKKTLEIMDAIHKKSLQFKKTMDAKNYE QKCRDKDAEQAVSRANLVNPKQOEKLFVKLATSKTAVEDSDK AYMLHIGTLDKVRBWSBHIKACEAFBAQECBRINFERNALWL HVNQLSQQCVTSDMYEQVRKSLKMCSTIORDI EYFVNQRKTGQI PPAPIMYENFYSSQKNVAPGAKATGPNLARRGPLPIPKSSPDDP NYSLVDDYSLLYQ
6595	57	781	PLGTMSDSLDGEDEGLLSLAGKRKRRGNLPKESVKILRDWLYH RYNAYPSEQEKLSSGQTNLSVLQICNWFINARRLLPDMLRKD GKDPNQFTISRRGKASDVLPGRSSPSVLAVSVFAPTNVLSLS VCSMPHSGQGEKPAAPFPGRGELES?KELVTPGSTLTLLTRAEA GSPTGGLFNTPPPTPEQDKEDFSFQLLVEVALQRAAEMBLQK QDDPSLPLHTPIPLVSENPO
6596	2	1026	PRLPVRRYHGRRIQGRSRGHMAEGDAGSDQORONEETIAMAAYI GBEWCVIDDCAKIFCIRISDDIDDPKWTLCIQVMLPNEYPGTAP PIYQLNAPWLKQGERADLSNSLEETIYQNIAGESILYLWVEKIRD VLIQKSQMTPEGPDVKKKTEBEDVBCDDLLACQPESSVKALD FDISETRTEVEVEELPPIDHGIPITDRRSTFOAHLAPVVCVKQV KMLSKLYENKKLASATHNIYAYRIYCEDKQTFLODCEDDGETA AGGRLHLHMEILNVKNVWVVSRYGGILLGPDRFKHINNCCARN ILVEKNYTNPSPESSKALGKNKKVRKDKKRNEH
6597	2	1026	PRLPVRRYHGRRIQGRSRGHMAEGDAGSDQORONEETIAMAAYI GERWCVIDDCAKIFCIRISDDIDDPKWTLCIQVMLPNEYPGTAP PIYQLNAPWLKQGERADLSNSLEETIYQNIAGESILYLWVEKIRD VLIQKSQMTPEGPDVKKKTEBEDVBCDDLLACQPESSVKALD FDISETRTEVEVEELPPIDHGIPITDRRSTFOAHLAPVVCVKQV KMLSKLYENKKLASATHNIYAYRIYCEDKQTFLODCEDDGETA AGGRLHLHMEILNVKNVWVVSRYGGILLGPDRFKHINNCCARN ILVEKNYTNPSPESSKALGKNKKVRKDKKRNEH
6598	1099	419	PRVRWATTMAMSFEPWQYRFPPDFFTLQPNVDTRQKQLAAWCSL VLSFCRLHKQSSMTVMEAQBSPLFNNVKLQRKLPVESIQIVLEE LRKKGNLEWLDKSKSSFLIMWRRPEEWGKLIYQWVSRSQONNSV FTLYBLTNGEDTEDEEFHGLDEATLLRALQALQGEHKAETITS DGPRRQVLLAGTCLPLLLTSHLSRAFKRRQTCCPKTGSVTPPD SKGLQS
6599	164	1593	KMAALTTLFKYIDENQDRYIKKLAKWVAIQSVSAWPEKRGRIIR MMEVAAADVQLGGSVELVDIGKQKLPDGSRIPLFPILLGRIGS DPQKKTVCYGHLDVQPAALDGDWSEFPFTLVERDGKLHGRGST DDKGPVAGWINALEAYQKTGOEIPVNVRFCLGMEESGSEGLDE LIFARKDTFFKDVYVCISDNWLGKKKPCITYGLRGICYFFIE VECNKLHSGVYGGSVHEAMTDLILLMGSIVDKRGNIIIPGIN EAVAATTEEHKLYDDIDFIDIEFAKDVGAQILLHSHKCDILMH RWRYPSSLHIGIRGAFSGGAKTVIPRKVVGKPSIRLVNMTPE

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			VVGEQVTSYLTKKFAELRSPNEFKVYMGGGKPVVSDFSHPHYL AGRRAMKTVFGEVDLTREGGSTPVTLTFOEATGKNVMLLPVGS ADDGAHSQNEKLNRYNYIEGTRMLAAYLYEVSQKLD
6600	2	934	PGRLFRVAAMESAGLEQLLRELLLPDTERIRRTBQLQIVLRAP AALSALCDLLASADPQIRQFAAVLTTRRRINTRWRRLAAEQRES LKSLLTALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLLQLL QHSTHSPHSFEREMGLLLSVVTSRPEAFQPHHRELLRLNET LGEVSGPGLLFYSLRTLTTMAPYLSTEDVPLARMLVPLKINAMQ TLIPIDEAKACRALEALDELLESEVPVITPYLSEVLTFCLEVAR NVALGNAIRIRILCCLTFLVKVSKALLKNRLLATLAHPFPHC GC
6601	529	1420	PRAAARAPPFAVLRRDRRAATAPGAGEMTLHGFLAORYFLNHIE KITTWQDPRKAMNQPLMHMLHPAVSSTFPVQRMAVSQPNLVM NHQHQQCMAPSTLSQQNHPTQNPAGLMSMNALTTQQQQQKLL RLQRIQMBRERIRMRQBELMRQBAALCRQLPMEASTLAPVOAAV NPPTMTFDMRSITNNSDDPFLNGGPPYHSRQSTDSGLGLGCYSV PTTPEDFLSNVDEMDTGENAGQTPMNNINPQTRFPDFDCLPGT NVDLGTLESEDLIPLFNDVRSALNKSRRFLTWL
6602	127	617	LIDFPALPKFVLAQSPKAGKPSMTSMQSLREVIKAMTKARNF ERVLGKITLVSAAPGKVICEMKVEEBHTNAIGTLHGGLTATLVD NISTMALLCTERGAPGVSDMNITYMSPAKLGEDIVITAHVLKQ GKTLAFTSVDLTNKATGKLLAQGRHTKHLGN
6603	79	660	PVGPSSLAARTGLGHLEFLHRLASSRGLMDLLQLAFPLVLLL SGMGATGTLRTSLDPSLEIYKMMFEVKRRBQLLALKNLALQNDI HQYKILDVMLKGLFKVLEDSRTVLTAADVLPDGPFPQDEKLD AFSHVVENTAFPGDVVLRFPRIVHYYPDHNSNWNLLIRWGISFC NQTGVFNQGPSPILSLM
6604	3	688	TSTAQRQGGGRMSFRGCGRGGFNRGGGGGGFNRGSSNHFRGGG GGGGGGNFRGGGRGGFGRGGGRGGFNRGGQDQGPPEVVLGEFL HPCEDDIVCKCTTDENKVPYFNAPVYLENKEQIGKVDEIFGQLR DFYFSVKLSNMKASSFKKLQKFIIDPYKLLPLQRFPRPPGEK GPPRGGGRGGGRGGCGGCGRGGGFRGGGRGGCGGFRGGRG CGFRGRGH
6605	7	848	SCSRGAMRAAGVGLVDCHCHLSAPDPDRDLDDVLEKAKKANVV ALVAVAEHSGBPKIMQLSERYNGFVLPCLGVHPVQGLPPEDQR SVTLKDLVDALPIIENYKDRLLAIGEVGLDFSFRFAGTGBQKEE QRQVLIRQIQLAKRLNLPVNVHSRSAGRPTINLLQEQGAEKVL HAFDGRPSVAMEGVRAGYFFSIIPPSIIRSGQKLKVLPLTSIC LETDSPALGPEKQVRNEPWNISISABYIAQVKGISVEEVIEVTT QNALKLPKLRHLLQK
6606	2	1682	FVRIRPRAEVANLSAHSASPIQDAVLKRLSILEDIVYRQLNGLS KSLGLEGGYGGGKGGLPATLSPAEBEKAGPHEKYGYSYLSR KISLDRSIPDYRPTCKCKELKYSKOLPQISIFIFVNEALSILR SVHSAVNHTPTHLLKEIILVDDNSDEBELKVPLEKYVHKRYPL VKVVRNQKREGILIRARIEGKVKATGQVTGFFDAHVEFTAGWAE VLSRIQENRKRVLPSIDNIKQDNFEVQRYENSAGYSWELWCM YISPPKDWNDAGDPSLPRTIPAMIGCSFVVRNKFGEIGLLDPG MDVYGGENIELGIKVLGGSMELVPCSRVAHIERKKKPYNSNI GFYTKRNALRAEVWMDYKSHVYIAWNLPLENPGIDIGDUSER RALRKS LKCKNFQWYLDHVPYEMRRYNNYVAYGELRNNAKDV LDQGLENNHTAILYPCHGWGPOLARYTKEGFLHLGALGTTLLP DTRCLVDNSKSRPLQLLDCDKVSSLYKRWNFIONGAIMNKGTC RCLVENRGLAGIDILRSCTGQRWTTKNSIK
6607	137	986	VPACAGLKKEARSLASPPRLNLTQKQACRALESPPIQSRQTT GISFGGRGGAGPGVPTRTQVFAAMGAVMGTFSSLTQTKRRPSKD KTEDELEMTMVCRRPEGLEQLAQTNFTKRELQVLYRGFKNECP

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			SGVVNEDTFKQIYAQFFPHGDASTYAHYLFNAFDITQTGSKVKE DFVTALSILLRGTVHEKLRWTFNLYDINKDGYINQEEMDIVKA IYDMMGKYTYPVLKEDTPRQHVDPVFPQKMDKNKGIVTLDDEPLE SCQEDDNIMRSLQLEQNVN
6608	224	1140	RPCFSSPTGLCPRLSYPMILLQHAVLPPPKQSPSPSPMSVATRS TGTQLPFPQKPFQGRASLPLAGREELS KGGQDCALEELCKPLY CKLCNVTLNSAQQAQAHYQGNHGGKLRNYAANS CPPPARMSN VVEPAATPVVPVPPQMGSKPGGRVILATENDYCKLCDASFSSP AVAAHYQGNHAKRLRLAEAQSNPSSESSLGQRRARKEGNEF KMPNRRNMVTVQNNSGPYFNPRSRQRI PRDLAMCVTPSGQPYC SMCNVAGAGEMEFRQHLESKQHKSKVSRQRYRNEMENLGYY
6609	1	443	FRLCRRFRVAGGRLAGAGLRESVPAPFORLSALTLLSWSAVT PAAEPGNFQLSPAEPGRGLASPVRAAPRACPAAEMSELNKTTS PATNQAGQEQEKAGNWKKAEEEEIIDIDLAPETEKAAALATQ GKFRRFQKRKKDPSS
6610	319	881	GRKSLCNLHIFIRPPLTYPDMYMGMMCTAKCGIRFQPPAILLI YESEIKGKIRQIMPVRNPSKFSDCTRAEEQLKNNPRHKS YLSQ VSLRQLEKLFSLRGYLSGQSLAETMEQIQRETTIDPEBDNLKL DDKELAKRKSIMDELFEKNQKKDDPNFVYDIEVEFPQDDQLQS CGWDTESADEF
6611	978	212	PGCSGAGSRVWVLPALRHLAMGSTESSEGRVSPGVDEBERVRV LQGVRLSENVNRMKEPSSPPAPTSSSTFGLDGDLRAPHKEST LPRSGSGGQSPSGMKGVKRYEQKHAATQDKLFQVAKREREAA TKHSKASLPTGEGSISHEEQKSVRLARELESREARLRRTDFYK EQLERIERKNAEMYKLSSEQFHEASKMESTIKPRRVEPVCSGL QAQILHCYRDRPHEVILCSDLVKAYQRCVSAAHKG
6612	1724	992	VSTHASALSRTQGPORQPRAAAGAGAGTAGGGGSGGAGBSKM STEAQRVDDSPSTSGGGSDGDQRESVQOEPEKEQVQPKKEGKI SSKTAAKLSTSAKRIQELABITLDPNCSAGPKGDNIYEWRS TILGPPGSVYEGGVFFLDITFSPDYPPKPPKVTFRTRIYHCNIN SQGVICLDILKDNNSPALTISKVLISICSLTDCNPAADPLVGS ATQYMTNRAEHRMARQWTKRYAT
6613	130	748	EELSSNMPEQSNDRYVAVFGAGGVGKSSSLVLRVFKGTFRSEYI PTVEDTYRQVISCDKSICTLQITDTTGSHPFAMQRLSISKGHA FILVYSITSRQSLKELKPIYEQICEIKGDV3SIPIMLVGNKCDR SPSRVQSSEARALARTWKC AFMETS AKLNHNKELFQELLNLE KRRTVSLQIDGKSKQQRKEKLGKCVIM
6614	3	1191	SSAAEAMRVLRRCNGPPLAEGARRGRFSPQWRALRLGWEDCR DSRVREKPPWRVLPFGTDQFAREALRALHAARENKEELIDKLE VVMPPSP8PKGLPVQYAVQSLPVYEWPDVGSGEYDVGVVASF GRLLNEALILKFPYGI LNVHPSCLPRWRGPAPVIHTVL3GDTVT GVTIMQIRPKRFDVGPILKQETVPVPPKSTAKELEAVLSRIGAN MLISVLKNLPESLSNGRQQPMEGATYAPKISAGTSCIKNWETS EQIFRLYRAIGNIIPLQTLWMANTIKLIDLVEVNSSVLADPKLT GQALIPGSVIYHKQSQILLVYCKDGWIGVRSVMLKKS LTATDPY NGYLHPWYQKNSQAQPSQCRPOTLRPLTKKKOKKTIVAMQOCIE
6615	832	35	GRVGAGASAMSELPGDVRAFLREHPSRLRLQTDARKVRCILTGHE LPCRLPELQVYTRGKKYORLVRA SPADYAEFEPHIVPSTKNPH QLFCKLTLRHINKPEHVL RHTQGRYQALCKYRECOQGVVEY VPACLVRHRRRRRBDQMDGDGPRPREAPWEPTSSDEGGAASDDSM TDLYPPELFTRKDLGSTEDGDGTD DFLTDKEDEKAKPPREKATD EGRRRETTVYRGLVQKRGKKQLGSLKKKPKSHHRKPKSFSSCKQS G
6616	347	1886	LLPPCQGARPLSSPPHASEDNLFVWNCILCAFPHPSPQPLQYP VWPLLLVITQIPARHLRNRRFSPSRGGLDSFSGSLSTPSICRS

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			PAWVKMAPNPPKGLVPAVLWGLSLFLNLPGLIWLQPSPPQSSP PPQHPCHTCRGLVDSFNKGLERTIRDNPGGNTAWEEENLSKY KDSETRLEVLVBGVCSKSDFECHRLLELSEELVESWVFKQQA PDLFQWLCSDSLKLCPPAGTFPGPSCLPCPGGTERPCGGYGCCEG EGTRGGSGHCDQAGYGGACGQCGLGYFEARNASHLVCSACF GPCARCSGPEESNCLQCKKGWALHHLKCVDIDECGETEGANOGAD QFCVNTBGSYECRDCAKACLGCMGAGPGRCKKCSFGYQVGSKC LDVDECEYEVCPGENKQCENTEGGYRCICAREGYKMEGICVKEQ IPESAGFFSEMTEDLVVLQQMFFGIIICALATLAAGDLVFTA IPIGAVAAMTGVWLSERSDRVLEGFIKGR
6617	118	673	VWMAQVSLLELDRLQCPICLEVFKESLMQCGHSYCKGCLVS LSYHLDTKVRCPCMCWQAVDGSSELNPNVSLAWVIEALRLPGDPEP KVCVHHRNPLSLFCEKDQELICGLGGLGSHQHHPVTPISTVCS RMKEELAALEFSELKQEQKVDDELAKLVNTRTRIDGSAPSLCPC LGPATFTFL
6618	548	136	DGKVARRAPNPAFQNDIYPLVSAPRATTAESPWKVLQNTQCR NVPKMTSERSRIPLCLSAAGEGTKKQEGGRAMATLDRKVPSP APLGKFWSSWIDAALHCSDNVDLEAGKRGCKSGREVMRLNKEA WKYGT
6619	246	842	PASSEVLTAAMVFLLLNCIVAVSQNMGIKNGDLFRPPLRNEFR YFQMTTSSVEGKQNLVIMGRKTWFSIPEKNRPLKDRINLVLS RELKRPQGAHFLARSLDDALKLTERPELANKVMDIWIWVGSSV YKAMNHLGHLKLFVTRIMQDFESDTFFSEIDLEKYKLLPEYPG ILSDVQEGKHKKYKFEVCKDD
6620	3	1879	NSRVDDFVARARMAAENEASQESALGAYSPVDYMSITSFPRLEP DEPAPAAPLRGRKDEDAFLGDDPDTPDSFLKSARLQRLPSSSSE MGSQDGSPLRETRKDPFSAAGSCSCRODGLTIVTACLTFATG VTVALVMQIYFGDFQIQQGAUVTDAACTSLGIEVLKQGSV DAAVAAALCIGIVAPHSSGLGGGVMLVHDIRRNESHLDIFRFS APGALREETLQSWETKPGLLVGVPGMVGLHRAHQYGRLEWS QVLAFAAAVAQDGFNVTHDLARALAEQLPPNMSERFRETFLPSG RPPLPGSLHHRPDLAEVLDVLGTSGPAAPYAGGNLTLEMVAEAQ HAGGVITEEDFSNYSALVEKPVCGVYRCHLVLSPPPPPTGPAL SALNILEGFNLTSLSVSEQALHWAETLRYALALASRLGDPVYD STITESMDMLSKVEAAYLRGHINDSQAAPALFVYELDGAPT AAQVLIMGDDFIVAMVSSLNQPFSGSLITPSGILLNSQMLDPS WPNRTANHSAPSELSVQPGKRPLSFLPTVVRPAEGLCGTYLA LGANGAARGLSGLTQVRFTPLAFFSREPSGGLDCRCLSYLWLV SIPHAANMG
6621	1	662	VQGITSYQORLQALRKEKSRDAARSRRGKENFEFYELAKLLELP AAITSQLDKASIIRLTISYLKMRDPANQGDPPWNLRMGGPPENT SVKVIQAQRRRSPSALAIEVFEALHLSHILQSLDGYVPALNQEG KFLYISETVSIYLGSLQVELTGSSVFDYVHPGDHVMABQLGMK LPPGRGLLSQGTAEKGASSASSSSQSETPEPVVCFPPASDQFL
6622	2	319	GRASGAQKETEAGGPERARAMBANMPKRKEPGRSLRIKVISMG AEVGKSCIYKRYCEKRFVSKYLATIGIDYGVTKVHVVRDREIKVN IFDMAGHPFFYEVRRPF
6623	1886	189	KALFEKVKKFRHLHVEEGDILYAMYVRQTVLKVIFLYIAYNSA LVSKVQFTVDCNVDIQDMTGYKNFSCNHTMAHLFSKLSFCVLCF VSIYGLTCLYTYLWLFYRSLREYSFEYVRQETGDDIPDVKNDF AFMLHMDQYDPLYSKRFAVFLSEVSENKQLQNLNNEWTDPKL RQKIQTNAHNRLEPLIMLSGLPDTVFEITELQSLKLEIIRKVM IPATIAQLDNLQELSLHQS SVKIHSAAALSFLKENLKVLSVKPDD MRELPWMYGLRNLBEELYLVGSLSHDISRNVLTLESRLDKSLKI LSIKSNVSKIPQAVDVSSHQKMCIHNDGTLVMLNNLKKMTN LTELELVHCDLERIPHAVFSLSLQELDLKENLKSIEEIVSFQ

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			HLRKLTVLKLWHSNTYIPEHTKKLTSLERLSPSHNKIEVLPSH LFLCNKIRYLDLSYNDIRFIPPEIGVLQSLQYPSITCNKVESLP DELYPCKKLTLLKIGKNSLSVLSPKIGNLLFLSYLDGKGNHFEI LPPELGDCRALKRAGLVVEDALFETLPSDVREQMKE
6624	218	1786	GSRRGGGSRIPAVSTHVAPGRSVLRPFASGALRLRLSLVKALGGC RGRPSGLAHLQSQTSHWRKRSGRACLDGPPGILRSFIMKCTA REWLRVTTVLPMARAIAMVVPNATLLEKLEKYMDDEGEWVIA KQKRAITDNDMQSILDLHNKLSQVYPTASNMEYMTNDVELE RSAESWASCLWEHGFPASLLPSIGQNLGAHWGRYRPPTFHVQSW YDEKDFSYPYEHCCNPYCPFRCSGPVCTHYTQVWATSNRIGC AINLCHNMNIWQIWPKAIVYLVCNYSFKGNWGHAPYKHGRPCS ACPPSPFGGCGRENLCYKEGSDRYPPPREETNEIERQQSQVHDT HVRTSRDDSSRNEVISAOQMSQIVSCEVRLRDQCKGTTTCNRYEC PAGCLDSKAKVIGSVHYEQSSICRAAIHYGIIDNDGGWVDITR QGRKHYPFKSNRNGIQTIGKYQSANSFTVSKVTQAVTCETTVE QLCPFHKPAASHCPRVYCPKRLYASKSTLCSNWNSSLP
6625	1124	543	PGPRGGGSLSTKALGRSRGLGMHPGSSGGTEGGVPTALRPP GPLVPSTSDNNLLKNIELFDKLALRFHGRLLFLKDLGDBECCW SFYQGRKIAEVCCTSIVYATEKKQTKVBFPEARIPBETLNILI YETPRGPDPALEATGGAAGAGAGROEDENREHRVRRITHVRR HITHDERPHGQQIVFKD
6626	3	1498	SAVEFVYTDRLFHLILGISVEFLCSLRSDATMESITACLHALQAL LDVPWPRSKIGSDQSGIHLNLVLRVILTRESPSIQLASLEV RQIICAAQEHVKEKRRSAEVDQAAEKETLPEFGEKDTGGSLVP GKSLVFATLELCVCLVRLPEINPKLTGSPGVKATKPKQILLED GSRLVSAALVILSELPAVCSPEGSIILPTILYLTIGVLRRETAV KLPGCQLSSTVAASLQALKGILSSPMARAKSRTAWTDLLRSAL TTILDCNDPVDETHQELDEVSLTALTITVFIILSTSPEVTTIPCLQ KRCIDKFKATLEIKDFVVOIKTYQLLHSIPQYPNPAVSYPYIYS LASCIMEKLOEIDKRRKPENTABLEIFQEGIKVLETLVTVAEREH RAQLVACLPLILISFLDENSILGSATSIMRNLDHDFALQNLMOIG PQYSSVPKSLVASSPALKARLEAAIKGNQESVKVKIPTSKYTKS PGRNSSIQLKTSFL
6627	1	697	GIPHLSSRDWGTGCAVATRDGEAPERSPPCSPSYDLTGKVMLL GDTGVGKTCFLIQPKDGAFLSGTFIATVGDIFRNKVVTVDGVRV KLQINDTAGQERFRSVTHAYYRDAQALLLYDITNKSSFNDIRA WLTEIHEYAQRDVVIMLLGNKADMSSERVIRSEDETLAREYGV PPLETSAKTGMNVELAFLAIAKELKYRAGHQADEPSPQIRDYVE SQKRRSSCCSFM
6628	1	1861	QCAEFGGSGGGGGGGGGGGGGGGRGAGGEBENKENERPSAGSKAN KEPGDSLSEILQIIKESQQQHGLRHGDFORYRGYCSRRQRRLR KTLNPKMGNRHKFTGKKVTEBLLTDNRYLLLVLMDAERAWSYAM QLKQEAANTEPRKRFHLLSRLKAVKHAEELERLCESNRVDAKTK LEAQAYTAYLSGMLRFEBHQEWKAAIEAFNKCKTIYEKLASAFTE EQAVLYNQRVVEISPNIRYCAYNIGDQSAINELMQMRLRSGGTE GLLAEKLEALITQTRAKQAATMSEVEWRGRTVPVKIDKVRIFLL GLADNEAAIVQAESEETKERLFESMLSECRDAIQVREELKPDQ KQRDYILEGEPGRVSNLQYLHSYLYTIKLTAKRNENMAKGLQ RALLQQPEDDSKRSPRPQDLIRLYDIIILQNLVELLQLPGLEED KAFQKEIGLKLTVFKAYRCFFIAQSYVLVKKWSEALVLYDRVLK YANEVNSDAGAFKNSLKDLPDQVELITQVRSEKCSLQAAAILDA NDAHQTETSSSQVDKNKPLVERFETFCLDPSLVTKQANLVHPPP GFQPIPKPLFFDLALNHVAFPPLEDKLEQKTKSGLTGTYIKGIF GFRS
6629	5653	4549	GATPLGSGVGGRTGKMDAATLTDTLRFABFEDFPETSEPVWILG RKYSIFTEKDEILSDVASRLWFTYRKNFPAIGGTGFTSUTGWGC

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			MLRCGQMIFAQALVCRHLGRDWRWTQRKRQEDSYFSLVNAFTDR KDSYYSIHQIAQMGVGEKSGIQWYGPNTVAQVLKLAFFDTWS SLAVHIAMDNTVMIEIRRLCRTSVPCAGATAFPADSDRHCNGF PAGAEVTNRPSPPWRPLVLLIPLRLGLTDINEAYVETLKHCFMMP QSLGVIGGKPNASAHYFICYVGBELIYLDPHTTQPAVEPTDGCPI PDESFCQEPPECMSTAEIDPSIAVVRGGHLSQAFGAECCLGM TRKTFGLRPFPSMLG
6630	2	423	LVQCCGIRRRSANGAMPGRHVSRRVRLYKRVQLQHRVLPDDLKS LGDQYVKDEFRRHKTGVSDEAQRFLQEWVYATALLQQANENRQ NSTGKACFGTFLPEBKLNDFRDEQIGQLQELMQEATKENRQFSI SESMKPKF
6631	2	423	LVQCCGIRRRSANGAMPGRHVSRRVRLYKRVQLQHRVLPDDLKS LGDQYVKDEFRRHKTGVSDEAQRFLQEWVYATALLQQANENRQ NSTGKACFGTFLPEBKLNDFRDEQIGQLQELMQEATKENRQFSI SESMKPKF
6632	1273	588	WNSRGRTQGAAPLAPAAAMKAVVQRTASVTVGGEQISAIGR GICVLLGISLEDTQKLEHMRKILNLRVFEDESGHWSKSVMD KQYELLCSVQFTLQCVLKGKPDFHLAMPTEQABGFYNSPLEQL RKYRPELIDKDGKFGAYMQVHIQNDGPVTIELESPAGTATSDP KQLSKLEKQQQRKEKTRAKGPSBSSSKERNTPRKRDRSASSGAEG DVSSEREP
6633	1145	617	ATGRHEGVPTLEGIQQQLVNGIITPATIPSLGPWGLHNSNPMFY AWGANGLDALITQLINQFENTGPPPADKEKIQALPTVPVTEHV GSGLECPVCKDDYALGERVRQLPCNHLPHDGCIVPNLEQHDSCP VCRKSLTGQNTATNPGLTGVSFSSSSSSSSSSSPSNENATSNS
6634	1	1134	CGGIPRKGSGPERRRLEPMARLRDCLPRMLTLRSLLFWSLVYCYC GLCASTHLLKLLNSLGKGAQTFRRPAREHPPACLSDPSTGTHC YVRIKDSGLRFHYVAAGBRGKPLMLLHGFPFHWYSWRYQLREF KSEYRVVALLDLRGYGETDAP IHRQNYKLDCLITDIKDILDSLAGY SKCVLIGHLWNGMIAMLIACYPFEMVMKLIIVNPPHPNVFTEYI IRHPAQLLKSSYYYFPQIPWPFPEMFISINDFKVLKHLFTSRSTG IGRKGCLTTEDLEAYTVFVSQPGALSGPINHYRNI FSCPLPKH HMVTITPTLLWGENDAFMEVMAEVTFRFYVKNYFRLTILSEASH WLQDQDPDIVNKLINTFLKEBTRKKD
6635	1420	470	EMRAGQQLASMLRWTRAWRLPREGLGPHGPSFARVPVAPSSSSG GRGGAEPRPLPLSYRLLDGEAALPAVVFLHGLFGSKTNFNSIAK ILAQTGRRVLTVDARNHGDSPHSPDMSYEIMSQDLQDLLPOLG LVPCVVVGHSMGGKTAMLLALQRPVVERLIAVDISPVESTGVS HFATYVAMRAINIADELPRSRARKLADEQLSSVIQDMAVRQHL LTNLVEVDGRFVVRVNLDAITQHLDKILAPPQRQESYLGPTLFL LGGNSQFVHPSHHPEIMRLFPRAQMOTVPNAGHWIHADRPQDFI AAIROFLV
6636	1514	1801	SFCMFSHKQDSHFQAVFPVQEKKRLRRAPWRAFAQPQLKHPAE QPIVRQCLQRPPPLCGVLGPVQQQLPPSLGPVLSPHSDPGWCRVD DGGDGVF
6637	2	1501	CSSSPCFHDGTCVLDKAGSYKCACTAGYTGRCENLLEAGKSKI KASEDSLVLBERNCSDPGGPVNGYQKITGGPGLINGRHAKIGT VVSFFCNNSYVLSGNEKRTCCQNGEWSGKQPICIKACREPKISD LVRRRVLPQVQSRRETPHLQLYSAAPSKQKLQSAPTKKPALPFG DLPMGYQHLHTQLQYECISPFYRRIGSSSRRTCLRTGKWSGRAPS CIPICGKIENITAPKTQGLRWPNQAATYRRTSGVHDGSLHKGAW FLVCSGALVNERTVVAAHCVTDLGKVTMIKTADLKVVLGKFYR DDORDEKTIQSLQISAILHPNYDPIILLDADIAILLKLDKARIS TRVQPICLAASRDLSFSQESHITVAGWNVLDVRSPPGPKNDTL RSGVSVVDSLLCEBQHEHDGIPVSVTDNMFCASWBPAPSDIC TARTGGIAAVSFGRASPEPRNHLMLGLVSNYSYDKTCSHRLSTAF

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			TKVLPPKDWIERNMK
6638	1391	224	GGIPQAGGKMAAPWWRALCECRRWRGFSTSAVLGRRTPLGPM PNSDIDLNLERLEKYRSFDRYRRRAEQEAQAPHWRTYREYFG EKTDPEKIDIGLPPPKVSRTOQLLEKQAIQELRANVEERAA RLRTASVPLDAVRAEWERTCGPYHKQRLAEYYGLYRDLPHGATF VPRVPLHVAAYAGGEDDLMFVYCGNEVTPTAAQAPEVITYAEBSG SLWTLTLLSLDGHLEPDAEYLHLLTNIIGNRVABGQVTCPYL PPFPARGSGIHLRLAFLFLFKQDQIDFSEDARPSPCYOLAQRTFR TFDFYKKHQETMTFAGLSYFQCRWDDSVTYIFHQLLDMREPVE FVRPPPYHPKQKRFPHQPLRYLDYRDSHEPTYTY
6639	2046	1268	IGCFIMDGGDDGCLIIKKRFVSEAELEDRKRRQEEWEKVRKPE DPECEPEEYVDPRSLYERLQEQRKQOEYEEQFKFKNMVRGLD EDETNPLDBVSROQELIEQRREBELKELKEYRNNLKKVGISQR NKKEVEKCLTVKPIETKPKPSQAKLLAGAVKHKSSESGNSVKRL KPDPEPDDKNQEPSSCKSLGNTSLSGPSIHCPSAAVCIIGILEPL GAYSGSSDSSESSDSEGTINATGKIVSSIIFRTNTFLEAP
6640	117	1043	VLEPPDVSMASEDRSLRVLVGTGSGKSATANTILGEEIFDS RIAAQAVTRKNCQKASREWQGRDLLVVDTPGLFDTKESLDTTCKE ISRCIISSCPGPHATVLLVLLGRYTEBEQRTVALIKAVPGKSGAM KHMVILFTRKEELEGQSFDHFIADADVGLKSIVKEGGRCCAFS NSKSTSKAEKESQVQELVELIEKMWQCNAGAYFSDDIYKDTERR LKQREEVLRKIYTDQINEEIKLVEEDKHKSEKKEKEIKLLKLLK YDKIKNIRBEAERNIFKDFVNRINWMLSEIWHRLSKCKPYSS
6641	1	894	SAAVGRSEVRGCAPEPRRLRRSAARMDEVPGTDSAPLAGLAWSS ASAPPPRGPSAISCTVEGAPASFCKSPAQKSGYFLCLSSLSLE NPQENVVADIQIVVDKSLPLGFSFVCDPMDSKASVSKKRMV KLLPLGATDTAVFDVRLSGKTKTVPGYLRIGDMGGFAIWCKKAK APRPVVKPRGLSRDMQGLSLDAASQPSKGGLLERTASRLGSRAS TLRRNDSTIYASSLYGISAMDGVFTLHPRFEGKSCSPLAFSAF GDLTIKSLADISEEYNYGVVEKTAARALPPSVS
6642	22	1296	PLEERMMTKMDPNDQQRDIIFHLRRIFAEDSPSNAPGSGTE KRKAMYTKOYKMLGFTNHINPAMDFTQTPGMLALDNLMLYLAKV HQDTYIRIVLENSREDKHBCPFGRSAIBITKMLCEILQVGBELP NBNRNDYHMFETHDRAPEELPGICIQLLNKTWKEMRATAEDFN KVMQVVRQITRALPSKPNSLDQPKSLRLSYSEILRLRQSER MSQDDFQSPPIVELREKIQPEILELIKQRLNRLCEGSSFRKIG NRRQERFWYCRALNHLKVLHYGLDDNPGQEVTFESLQEKIPV ADIKAVTGKDCPHMKESALKQNKVELELAPSLIYDDETLNF IAPNKYEYCIWIDGLSALLGKDMSSSELTKSOLDTLSEMEMKLRL LDLENIQIDPAPPIPIKPESSSYDFVYHYG
6643	3049	2265	SLHAPAEGRTRGLAEKPKMLTRKIKLWDINAHITCRLCSGYLI DATTVTECLHTFCRSCIVKYLEENNTCPTCRIVIHQSHPLQYIG HDIRMQDIVYKLVPLQEAEMRKQREPYHKLGMVPGDIKGETC SAQHLDSDHNGETKADSSNKGAEEKPEDNDYHRSDEQVSI CLECNSSKRLGLKRWIRCSAQATVLLHKKFLAKKLLNLSSPNEL DILCNEEILKDHDLKPVVTRWRFKAPLLHLYRPMKMDLL
6644	1489	290	FRPLATEPRGSSPVQLVSSSTMSVRTLPILLNLGGEMLYILDOR LRAQNI PGDKARKVLNDIISTMFRKPMELFKPKQELYSKKALR TVYERLAHASIMKLNQASMDKLYDLMTAFKYQVLLCPRPKDVL LVTFNHLDTIKGFIRDSPTILQOVDETLRLQTEIYGGLSAGEFQ LIRQTLILFPQDLHIRVSMPLKDKVQNMNGRFVLPVSGFPVWGT EVPGLIRMFNNKGEVVKRIEFKHGGNVVPAPKEGSFEFYGDRVL KLGTMYSVNPQVETHVSGSSKNLASWTQESIAPNPLAKERLNF LARLMGMEIKPKSGPEPGFRLNLFPTDEEEQAAALTRPERLSY EVINIQTQDQQRSEELARIMGFEFITEQPRLSTSEKGDILLAM DEL

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6645	6530	4646	FVEGLAGYVYKAASEGKVLTIAALLLNRSSESDIRYLLGYVSQQG QQRSTPLYIAARNGHAKVVRLLLEHYRVQTOGTGTVRFDGYVID GATALWCAAGAGHFVVKLLVSHGANVNHTTVTNSTPLRAACFD GRLDIVKYLVENNANISIANKYDNTCLMIAAYKGHTDVVRYLLE QRADPNKAHCGGATALHFAAEAGHIDIVKELIKWRAAIVVNGHG MTPKVAAESCKADVVELLLSHADCRRSRIEALELLGASFAND RENYDIKTYHYLYLAMLERFQDGNILBEVLEPPHAYGNRTE CRNPQELSIQRDRDALHMEGLIVRERILGADNIDVSHPIIYRG AVYADNMBFEQCIKLWLHALHLRQKGNRNTHKDLLRFAQVFSQM IHLNETVKAPDIECVLRCSVLEIEQSMNRVKNISDADVHNAMDN YECNLTYTFLYLVCISTKTQCSBEDQCKINKQIYNLIHLDPRTRE GFTLLHLAVNSNTPVDDPHNDVCSFPNALVTLLKLLDCGAEVNA VDNEGNSALHIIVQYNRPISDFLTLSIIISLVRGAHTDMTNK QNKTPLDKSTTGVSEILLKTQMKMSLKCLAAARAVRANDINYQDQ IPRTLEEFVGFH
6646	176	890	PSSRMNHLPEDMENALTGSQSSHASLRNIHSINPTQLMARIESY EGREKKGISDVRRTPCLFVTFDLLFVTLWIIELNVNGGIENL EKEVMQYDYSSYFDIFLLAVFRFKVLILAYAVCRLRHWWAIAL TTAVTSAPLLAKVILSKLFSQGAFGYVLPPIISFILAWIETWFLD FKVLPQAEENRLLIVQDASERAALIPGGLSDGQFYSPPSESA GSEAEKQDSEKPLLEL
6647	176	890	PSSRMNHLPEDMENALTGSQSSHASLRNIHSINPTQLMARIESY EGREKKGISDVRRTPCLFVTFDLLFVTLWIIELNVNGGIENL EKEVMQYDYSSYFDIFLLAVFRFKVLILAYAVCRLRHWWAIAL TTAVTSAPLLAKVILSKLFSQGAFGYVLPPIISFILAWIETWFLD FKVLPQAEENRLLIVQDASERAALIPGGLSDGQFYSPPSESA GSEAEKQDSEKPLLEL
6648	413	897	RNCWNCFTKYFNSPEDIDHKDSYLTIRSIMAEPDYIEDDNPEL IRPQKLINPVKTSRNHQLDHLRELLMNQKGLAPQNKPELQKVM KRRDQVIKQKEEAQKKSDLEILLKQKQKLEQLEKQKQLQ EBQENAPEFVKVGNLRRRTGQEVAAQES
6649	1357	832	WIPRAAGIRHEVKWDVKEIMSQHNIYVDALLKEFEQFNRRINEV SKRVRIPLPVSNIWEHCIRLANRTIVEGYANVKKCSNEGRALM QLDFQQFLMKLEKLTDIRPIDKEFVETIYKAYYLTENDMERWI KEHREYSTKQLTNLVNVLGSHINKKARQKLLAAIDDIRPKR
6650	32	765	LVELVFSLLVQSCQVYRSIANKFVPCLLLVTLSCGLTLGQAPR QKQGSTGEEFHFQTGGRDSCITMRPSSLGQAGEVWLRVDCRNTD QTYWCEYRGQPSMCQAFADPKSYWQALQELRRLHHACQGA LRPSVCREAGPQAHMQQTSSILKGSPEPNQPEAGTSPSLRPKAT VKLTEATQLGKDSMEELGKAKPTTRPTAKPTQPGPRPGGNEEAK KRAWEHCNKPFOALCAFLISFPRG
6651	3425	1353	ARELLKVGDFSLCAGPYQNTADTMENLSKEPLASFVSESFDISA CGIATEHVKIDNSGEGLTAEAGSETLSRDGEVGVNSDMHYELSG DSDLDLGDRCRNPRLDLEDSYTLRGSYTRKKDVPTDGYBSSLNF HNNQEDWGCSSWVPGMETSLPPGHWTAAVKKEKCVPPYVQIR DLHGILRTYANFSITKRLKDTMRTSHGLRRHPSFSANCGLPSSW TSTWQVADDLTQNTLDLEYLRFHKLKQTIKNGDSQHSASSANV FPKESPTQISIGAFPSKISEAPPLHPAPRSRSPLLVTVVEDP RPQCGPRRGYTASSLDSSSSWRERCCHNRDLRNSQRNHTVSFHL NKLKYNSTVKESRNDISLILNEYAEFNKVMKNSNQFIQDKELN DVSGEATAQEMYLPFPGRSASYEDIIIDVCINLHVKLRSVVKEA CKSTFLFYLVETEDKSFVVRTKNLLRKGHTIEIRPOHFCQAFHR ENDTLIIIRNEDISSHLHQIPSLKLLKHFPSVIFAGVDSPGDV LDHTYQELFRAGGFVISDDKILEAVTLVQLKEIKILEKLNGNG RWKLLHYRENKLLKEDERVDSTAHHKNIMLKSQSANIIEHLH YHQCDSSSTKAEILKCLLNLQIQHIDARFAVLLTDKPTIPREV

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			FMNGILVTDVNNFIENIEKIAAPFRSSYW
6652	2	1343	IPGSTTSCSCHSRRLRGSGSPAPRISLGAASPRPRPPSLPLPLPLPPLFLFTRPAERAWIRSRRASEWVGKMEVPRLDHALNSPTSPCEEVKNLSLEAIQLCDRDGNKSDSGIAEMEELPVPHNIKISNITCDSFKISWEMDSKSKDRITHYFIDLNNKKNKSNKPKHKDVPKLVAKAVPLPMTVRGHWFLSPRTEYTVAVQTASKQVDGDYVVSWEIIEFCTADYSKVHLTQLLEKAEVIAGRMKFSVFYRNQHKFYFDYVREHGNAMQPSVKDNGSGHSGPISGKLEGIFFSCSTERN TGKPPQDSPYGRYRFEIAAEKLEFNPTNLYFGDFYCMYTAYHYV ILVIAPVGSPGDEFCKQLRLPQLNSKDNKFLTCTEEDGVLVYHHA QDVILEVIYTDPFVDSLGTVAEITGHQLMSLTANAKKDPCKCT CNISVGR
6653	170	1910	FFLEPRLPFPASRARFVPARTRPSPLHPCCFCFEGGSMLSQ RVAAAASRGADDAESSKPGPVQVVLVQKQHSFELDEKALASILLQDHIRDLVVVSVAGAFRKGKSFILDFMLRYLSQKESGHS NWLGDPEEPLTGFSWRGSGDPETTGIIQWSEVFTVEKPGGKVA VVLMDTQGAQDSQSTVKDCATIPALSTMTSSVQIYNLSQNIQED DLQQLQLFTEYGRLAMDEIFQKPPQTLMPFLVRDWSFPYRYSYGL QCGMAFLDKRLQVKEHQHEEIQVNRNHIHSCFSDVTCFLLPHPG LQVATSPDFDGKLDIAGEFKELQALIPYVLNPSKLMKEKING SKVTCRGLLEYFKAYIKIYQGEDLPHPKSMLQATARAYNLAAASAKDIYNNMEEVCGGKPYLSPDILEEKHCERKQLALDHFKKT KKMGGKDFSFYQQELEEEIKELYNFCKHNGSKNVFSTFRTPA VLFTGIVALYIASGLTGFIGLEVVAQLFNCMVGLLLIALLTWGY IRYSGQYRELGGADFGAAYVLEQASSHIGNSTQATVRDAVVGR PSMDKKAQ
6654	1	705	RTSLSPSQCSFNLAMASAGMQILGVVLTLLGWVNLVSCALPM WKVTAFIGNSIVVAQVVEGLWMSCVVQSTGQMCKVYDLSLLAL PQDLQAARALCVIALLVALLFGLLVLAGAKCTTCVREKDSKARL VLTSGIVFVISGVLTLPVCWTAHAVIRDFYNPLVAREAKRELG ASLYLGWAASGLLLGGGLLCCTCPSGGSGQPSHYMARYSTAP AISRGPSSEYPTKNYV
6655	341	16	KDAYMPKKGLLALALVPSLPVFAAEHWIDVRVPEQYQERHVQGA INIPLKEVKERIAATAVPDKNDTVKVYCNAGRQSGQAKELSEMGYTHVENAGGLKDIAMPKVKG
6656	2	1212	TBLPPRPANLATQPPLSLRALAPLEKPGAVPPQKRMKAVAK DLNPGVKKMSLGQLQSARGVACLGCCKGTCSGFEPHWRKICKSC KCSQEDHCLTSDLEDDRKIGRLLMDSKYSTLTARVKGDDGIRIY KRNRMIMTNPIATGKDPFTDITTYEWAPGVTOQLSLQYMEIIP KBKQPVGTGEGAFYRRQLMHQLPIYDQDPSRCRGLLENELKLM EEFVKQYKSEALGVGEVALPGQGLPKKEGKQOEKPEGARTTAA TTNGSLSDPSKEVEYVCELCKGAAPPDSFVVYSDRAGYNKQWHP TCFVCAKCEPLVDLIYFWKDGAPWCGRHYCESLRPRCSGCDRI IFAEDYQORVEDLAWHRKHFCVCEGCEQLLSGRAYITVTKGQLLCPT CSKSKRS
6657	830	2120	LLTCQRRAGDCLLSASTMKEVVYWSPKKVAWMLLENAMPEYCEP LEHFTGQDLINLTQEDFKKPPLCRVSSDNGQRLDDMIETLMEH HLEAHKNGHANGHLNIGVDIPTDGSFSIKIKPNGMPNGYRKEM IKIPMBELERSQYPMENGKTFLAFLYALSCEFVLTVMISVVHER VPPKEVQPLPDTFFDFHFNVRQWAFSICEINGMILVGLNLIQWL LLKYKSIISRRFFCIYGLTYLYRCITMYVTTLPVPGMHFNCSPL FPGDWEAQLRRIMKLIAGGGLSITGSHNMCGDYLYSGHTVMLTL TYLFIKESPRRLWWYHWCWLLSVVGIFCILLAHDHVTVDDVVV AYYITTRLFWYHTMANQQVLKBASOMNLLARVWYRPPQYPEK NVQGI VPRSYHWPFPVPHLSRQVKYSRLVNDT
6658	35	855	HCCALGAPGSPYRGLYFSSAAPCTAPRKAKHQSTLEGLTKRMIM

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			FDPVPVKQEAADPVSVSYPSPNYMESMKPNKYGVIIYSTPLEKFF QTPEGLSHGIQMEPVDLTVNKRSSPFSAGNSPSSLKFPSSHRA SPGLSMPSSSPPIKKYSPSPGVQPPGVPLSMPPVMAAALSRHG IRSPGILPVIQPVVQPPVPMYTSHLQQPLMVSLSERMENSSES MQVPVIESYEKPISQKKIKIEPGIEPQRTDYYPEKMSPPIMNSV SPQALLQE
6659	18	523	EPQRGDCETWFOQNCSLPKFVCFPCWGFVLWRAHSMNSLHSLPGL RGLTSSIRNLQCTNAMRVINNYQRRWKNQNTFLATFANVVNV CGNPTITCPHNRTLNCHHSQVQVPLMYCNLTTPSPONISNCRY AQTANMFYIVACDNRDQRRDPQYVVPVHLHTII
6660	514	1707	CAASLDCRHHLCEDPMKLWVPSAKLLQAAGASARACDSVTSNV LPLLEQFHKSQSSQRTILEMLLGLKLQKNSYBDKQRP L NGFKDQLCSLVFMALTDPTSQLQVIGITLTVIGAQPDLSYED LELAVGHLYRLSFLKEDSQSCRVAALEASGTLAALYPVAFSSHL VPKLABELRVGESNLNGDEPTQCSRHLCLQALSASTHPSIV KETLPLLLQLHQLWQVNRGNMVAQSSDIVAVCQSLRQMARKCQDDP ESCWYFHTAIPCLLALAVQASMPEKEPSVLKRVLEDEVLAAM VSVIGTATTHLSPLAAQSVTHIVPLFLDGNVSFLPENSFPSPRF QPFDGSSGQRRLLALMAFVCSLPRNVSEHIWEVLLFNLDKVT PG
6661	179	430	GVHAASGTLSATWLAEAKMFDLSAKAGKYLGAAXLMIGMPDYD NYVEHMRVNHDPQTPMTYEEFFRERQDARYGGKGGARCC
6662	185	423	RSLPKPAPAQPASIHCAKRFSGVTPTAKTAMSDGNTAFNALMYC GPKADDGNI FSACAPASSAVKASVSAQPGQAVIP
6663	3	1005	RPVLSSEVDDFVPPPLPETSGRKKLERMYSVDRVSDDIPIRTWF PKENLFSFQASTTMAQISNFRKHLRMVSGRRVKAQTFAERRER SFSRWSDDPTPMKADTSHDSDSSDLQSSHCTLDEAFEDLDWDT EKGLEAVACDTEGFVPPKVMLISSKVPKAEYIPTIIRDDPSII PILYDHEHATFEDILBEIERKLNIVYHKGAKIWKMLIFCQGGPGH LYLLKNKVATPAKVEKEDMIHFWKRLSRLMSKVNPEPNVIHIM GCYILGNPNGEKLPQNLRTLTTPYRVTFESPLELSAQGQMIET YFDFRLYRLWKSQRSHKLLDFDDVL
6664	58	968	PRLLRLPRSVVMDSPWDELALAFSRTSMFPFFDIAHYLVSVMA VRQPAGAAALAWKNPISSWFTAMLCFGGGILSCILLAEPLKF LANHTNILLASSIWIYITFFCPHDLVSQGYSLPVQLLASGMKEV TRTWKIVGGVTHANSYYKNGWIMIAIGNARGAGGTIITNFERL VKGDWKEPGEDEWLKMSYPAKVTLGSGVITPQHTQHLAISKHNL MPLYTIFIVATKIMTMTQTSTMTFAPFEDTLNMLFCWQQPFS SCEKKSEAKSPSNGVGSLSKAPVDVASDNVKKHTKKNE
6665	171	1278	DERRLACRQVVTQQRSLYPGFQKRQRPLEKAGEAAQGRHL PGRWLGPGCTQNPCSVHTATGFEPKRLPLLPPDSPNSGYKPEA ALCPGIPSPCRMTHQDLSITAKLINGGVAGLVGVTCVFPIDLAK TRLQNOHGKAMYKGMIDCLMKTARAEGFPGMYRGAANLTLVTP EKAIKLAANDFFRLLMEDGMQRNLKMEMLAGCGAGMCQVVVTC PMRMLKIQLQDAGRLAVHHQGSASAPSTSRSYTTGSASTHRRPS ATLIAWELLRTQGLAGLYRGLGATLLRDIPF9IIYFPLPANLN LGFNELAGKASFAHSFVSGCVAGSIAAVAVTPLDVLKTRIQTLK KGLGEDMYSGITDCAR
6666	498	2868	MTTFLVPQMMAGFSFGTFGNPPMESPSAWQTIHQPFIVSCLTL WSPGCWPPQIQKEGVGLWDIRKQSSLLRYGGNLSLQSAMSVRF NSNGTQLLALRRRLPPVLYDIHSRLPVQFDNQVYFNSCTMKSC CFAGDRDQYILSGSDDPNLYMWRI PADPEAGGIGRVVNGAFMVL KGHRSIVNQVRFNPDHTYMICSSGVKEIKIINSPYKQPGCTGDLG GRIEDDSRCLYTHEEYISLVLSGSGLSHDYANQSVQEDPRMA FFDLSVRREIBGWSSDSDSLSESTILQLHAGVSRSGYTDSES SASLPRSPPTVDESADNAFHLGPLRVTTINTVASTPPTPTCED

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			AASRQRLSALRRYQDKRLIALSNESDSEENVCEVELDITLDFPR PRSPSPDESSSSSSSSSEDEELNERRASTWQONAMRRRQKT TREDKPSAPIKPTNTYIGEDNYDYPQIKVDDLSSPTSSPERST STLEIQPSRASPTSDIESVERKIYKAYKWLRYSYISYNNKDG TSLVTGEADEGRAGTSHKDNAPAPSSSKEACLNIAAQRNQLPP EGCSKDTFKEETPRTPSNGPGHSHAWAEVPEGTSDTGNNG SVEHPFETKKLKGALSSRAEPPSPVPKASGSLNNGSGNCP RTQSDDEERSLETICANHNNGRLHPRPPHNNQNLGELELV AYSSPGHSDTDRDNSSLTGTLLHKDCGSRMACETPNAGTRKDP TDTPATDSSRAVHCHSGLKRRRIELSDTDSSENSSEKKLKT
6667	171	1310	ABEVEERLAAMRSDSLVPGETHTPPIRRRSKFANLGRIPKPKWKR KKSEKFKHTSAALERKISMRSREELIKRGVLKEIYDKDGLSI SNEEDSLENGQSLSSSQLSLPALSEMBFVPMRPDPCSYEVLPQS DINDGPDGAPVKLPCLPVKLSPLPPKKVMICMPVGGPDLSLV SYTAQKSGQGVQAQHHTVLPSSQIQHQQLQYSGHQHLPSTTGLS PMHPSCGRMIDELNKTAMTMRLESSEQRVPCSTSYHSSGLHS GDGVTKAGMPLPEIRQVPTVVIECDNKENVPHESDYEDSSCL YTREEEEDEDEDDSSLYTSSLAMKVCRKDSLAIKPSNRPSKR ELREKNILPROTDEERLELRQIGTKL
6668	714	358	TLAVATGPALTLCRCHVCTSSSNCKHSVVCASSRFCKTTNTVEP LRGNLVKDCAESCTPSYTLQGVSSGTSSTQCCQEDLCNEKIH NAAPTRTALAHSAISLGLALSLLAVILAPSL
6669	459	1207	KDBETRKDYDMLDHPREYSHYHYYSRRLAPKVDVVRVILVS VCAISVPQFFSWNNSYNKAI SYLATVPKYRIQATRIAKQGLLK KAKKKGKVKKSKEEIRDEENIKNIIKSKIDIKGGYQKPKQICD LLFLQIILAFPHLCYSYIVWYCRWIYNFNKCKRYGEEERLYIR KSMKMSKSQFDSLSDHCKETFLKRELWIKENYEVYKQEBEELK KKLANDPRWKRYRRWMKNEGPGRLTFVDD
6670	184	594	VARI*GEAAKMSSEPPPPYPGGPTAPLLEKSGAPPTGRSSPA VMQPPQMPPLPPADIOPPPYEPGHPMPQPGFIPPHMSADGYM PPGFYPPPGPHPMGYPPPGPYTPGPYPGGHTATVLVPSGAA TITVT
6671	1	763	LPKPKPSAPNMAGGRGCPQLTALLAAWIAAATAAGPERAALP PEQSRVQPMTASNWTLVMEGEWMLKFPYAPWCPSCQQTSEWEAF AKNGEILQISVGKVDVIEPGLSGRPFVTTLPAFFHAKDGI FRR YRGPGEFEDLQNYILEKKKQSVPELTGWKSPASLTMSGMAGLFS ISGKIWHLHNYFTVTLGIPAWCSYVFFVIATLVFGLSMDLVL*V ISQCNWDPPYRHVS*/RPSTNLGVHTAHTSEHLRL
6672	304	1089	APGSKPVQPMDFEGKTSFGMSVFNLSNAINSGSILGLAYAMAHT GVIFFLALLLCTALLSSYSIHLLLTCAGLAGIRAYEQLGQRAF PAGKVVVATVICLHNVGAMSSYLFIIKSELPLVIGTFLYMDEPG DWFLKGNLLIYIVSVLIIPLALMKHLGYLYTSGLSLTCMLFF LVSVIYKPKQLGLCYRATMKQWSEALVGTPOPRDSTAAVKAQ MFHS*LTGVLTPQWPIMAFAFVCHPGGAGPSITELCRAFOAQD
6673	1116	1963	LQIQTHHTHGGARVTHLGSIHLLANAGTMLCRQSSSMAFAPSQ SVTCGPSPCVRKQESATKCLHIGACGSDLWARGWEQG*G*GINV WLCPVAFHREGARPAEAGGARWNSLVSSPWI PNP*HSSIGAE NAVPRP*QG*KVNPSGQERQS\WVLPLVPGEPLKLPGLPG*NK SFSRV/SGSKGNLPRQLM*AS*R\TPRFVPGTQWVPIW/PL ITWH*SAPTFPLKACAPRPSDPCSSCLSCPCVQHPRFSDTGW FGAGHCHSSCDFTRKGAAGGPG
6674	1	440	LEFDYMCQYDYVEVRDGDNRDGGIYKRVCGNERPAPIQSIGSSL HVLFSHSGSKNPDGFHAIYEEITACSSSPCFHDGTCVLDKAGSY KCACLAGYTGRCENLEERNCSDPG/WPSQWVPENNRGPWAYQ PTPC*IGTRVAFFLT

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6675	277	1678	GNWPTERMAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVD LEKIHPPSMPGDSGSEIQGSNGETQGYVYAQSVDTITSSWDFGIR RRSNTAQRLERLRKRQNIQKCNIQWKERNKQSAQBLKSLFE KKSLEKEKPPISGKQSILSVRLQCPQLQNNPFNEYSKFDGKGHV GTTATKKIDVYLPPLHSSQDRLLPMTVVIMASARVQDLIGLICWQ YTSEGREPKLNDNVSAICLHIAEDDGEVDTFPPPLDSNEPIHKF GFSTLALVEKYSSPGLTSKESLFPVINAAGFSLIQVDNTKVTM KEILLKAVKRRKGSQKVGSRADGVFEEDSQIDIATVQDMLSSH HYKSFKVSMIHRLRFTTDVQL/GCALPFGVLKRAAPVDCLRPS ADTWRQEQIGCCGAACAALRS*DSHKC*EGISGDKVEIDPVTNQ KASTKFWIKQKPISTIDSLLCAC\DLAEE
6676	277	1678	GNWPTERMAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVD LEKIHPPSMPGDSGSEIQGSNGETQGYVYAQSVDTITSSWDFGIR RRSNTAQRLERLRKRQNIQKCNIQWKERNKQSAQBLKSLFE KKSLEKEKPPISGKQSILSVRLQCPQLQNNPFNEYSKFDGKGHV GTTATKKIDVYLPPLHSSQDRLLPMTVVIMASARVQDLIGLICWQ YTSEGREPKLNDNVSAICLHIAEDDGEVDTFPPPLDSNEPIHKF GFSTLALVEKYSSPGLTSKESLFPVINAAGFSLIQVDNTKVTM KEILLKAVKRRKGSQKVGSRADGVFEEDSQIDIATVQDMLSSH HYKSFKVSMIHRLRFTTDVQL/GCALPFGVLKRAAPVDCLRPS ADTWRQEQIGCCGAACAALRS*DSHKC*EGISGDKVEIDPVTNQ KASTKFWIKQKPISTIDSLLCAC\DLAEE
6677	277	1678	GNWPTERMAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVD LEKIHPPSMPGDSGSEIQGSNGETQGYVYAQSVDTITSSWDFGIR RRSNTAQRLERLRKRQNIQKCNIQWKERNKQSAQBLKSLFE KKSLEKEKPPISGKQSILSVRLQCPQLQNNPFNEYSKFDGKGHV GTTATKKIDVYLPPLHSSQDRLLPMTVVIMASARVQDLIGLICWQ YTSEGREPKLNDNVSAICLHIAEDDGEVDTFPPPLDSNEPIHKF GFSTLALVEKYSSPGLTSKESLFPVINAAGFSLIQVDNTKVTM KEILLKAVKRRKGSQKVGSRADGVFEEDSQIDIATVQDMLSSH HYKSFKVSMIHRLRFTTDVQL/GCALPFGVLKRAAPVDCLRPS ADTWRQEQIGCCGAACAALRS*DSHKC*EGISGDKVEIDPVTNQ KASTKFWIKQKPISTIDSLLCAC\DLAEE
6678	221	865	GPSNQSSGSLSLIVTGCSSYWS*INDTCTILEVLSSNFRQ*LR PFPCSQLEMSQGCLWHLDCCPWVPIPGQWRKGRQMRN*QS LLGSDQBSVGLDLCVFFVNFLLHVLGLFP*PHELFLFPVVDLG FLFPLLLQGGCHCLVLPANLVSQAPQIGKISCLQTHDLEGSRN HHPLFLVVGWDAVKHLETVOGSLASLGFVGQHTSHGPP
6679	2	786	LEFARGAMPFLGDWRSPGQNVVKTVDGWRFLDEKSGSFVSDI SSYCNKEVYNKENLNSLNYD/SCSQEKEGHA*QNQNS\DPH QERWLYVHKGSTKERHGYCTLGEAFNRLOFSTAILDSRRFNYYV RLLELIASQSLTSLGIAQKNFMNILEKVVLKVLEDOQNTILIR ELLQTLTSLCTLVKRVGKSVLVGNINMVMYRMETILHWQQQLN NIQITRVSGQAQPPPGSGSLHRDTGQTRQDFEPTPVTESGLF
6680	1498	2951	PLCTLPLMPSALPGWAGERWEKQWPLA/PGPGTWQTPVGSISSE P/RKNEPDTHCPRGARPEV*HLPKPHSPGSEGAEIQTSA*ALP /NQVSPQPM*GAENGQDQGGKBERAGELHRSSSGLTAAPGF? EVHRNLQTFGLPSRGGG/GGAGTQGSWAPGRQPP/SPLLPAS MORSQAGLPGWEAGLVESPTTHIPALRPSGINATGEAFSTTCS SGP/PAPPGPTGLRPGGGSSSGHG*PGLPVGKV\GALGAAQD PQSQGRGPTQGTGTEMLLSGLGSAKACPAARPAV*LPSPDPA TIPKKGTRGFGGPGVLOERNRWVGRAGGFTSADAAGIAPPGV *LPAPLSQPPGATEPQVRACGMAPPSPGTSGLRVANGRHPPQV AQGCPFGAGCWCSPRGSQRCPTTYTHSPIGHGRAPCPRRCNH* WQDPFSSPRTGCLPGIPARQAYSAPRTRSPGIRTGRAAYGPIR PQGGGG

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6681	1169	511	INYYIYNQQQRAFHELK\EKLM SAPALGLPDLTKLFTLHVSEERE KMTVGVLTTQTGVPWSRPGAYLSKQLDGVSKGWPPCPRALAATL LAQEADELTLRLNLRKSPHA\VVTLINTKGHH*LINARLTRYQ TLLCENPHKTIEVSNL/LNPATLLLVTRSPVKHNCLEVLDSVYS SRPNLRDHP*TSVDWELVVDGSGFANPCKVTLKKETSAPAVTPR S
6682	109	1238	TVLCGAMQVSSINEVKIYSLSCGKSLPEWLSDRKKRALQKKDVD VRRRIELIQDFEMPTVCTTIKVS KDGQYILATGTYKPRVRCYDT YQLSLKFERCLDSEVVTFEILSDDYSKIVFLHNDRYIEFHSQSG FYYKTRIPKGRDPSYHYPSCDLYFVGASSEVYRLNLBQGRYLN PLQTDAAENNVCDINSVHGLFATGTIEGRVBCWDPRTRNRVGLL D\AP*TVSQQIQR*TSLEPTISALKFN\GALTMVAGTTTGQVLLY DLRSDKPLLKDHQYGLPIKSVHPQDSL D L L SADSRIVKMWNK NSGKIFTSLEPEHDLNDVCLYPNSGMLLTANETPKMGIIYIIPVL GPAPRWCSFLDNLTERLEENPESNE
6683	109	1238	TVLCGAMQVSSINEVKIYSLSCGKSLPEWLSDRKKRALQKKDVD VRRRIELIQDFEMPTVCTTIKVS KDGQYILATGTYKPRVRCYDT YQLSLKFERCLDSEVVTFEILSDDYSKIVFLHNDRYIEFHSQSG FYYKTRIPKGRDPSYHYPSCDLYFVGASSEVYRLNLBQGRYLN PLQTDAAENNVCDINSVHGLFATGTIEGRVBCWDPRTRNRVGLL D\AP*TVSQQIQR*TSLEPTISALKFN\GALTMVAGTTTGQVLLY DLRSDKPLLKDHQYGLPIKSVHPQDSL D L L SADSRIVKMWNK NSGKIFTSLEPEHDLNDVCLYPNSGMLLTANETPKMGIIYIIPVL GPAPRWCSFLDNLTERLEENPESNE
6684	111	527	GLRGGTSRGRAGREPEFAAGVLCVAVAGFCQSPCPGGRGREAPA PP\SGRRHA*RP*WLGPGGDSGREGGS/GELQRAMESKMG ELPLDINIQEPWDQSTFLGRARHFFVTVDPRNLLLSGAQLEAS RNIVQNYR
6685	258	1473	KLLGDNFEGFCNKFELSDSENGSNS*QSPL\FDRLFDDPDQKVL QGVIDMKNAVIGNNKQKANLIVLGAVPRLLYLLOQETSSTELKT BCAVVLGSLAMGTENNVSLLDCHIIPALLOGLLSPDLKFIEAC LRLCRTIFTSPTPEELLYTDATVIPHMLALLSRRYTQBYICQ IFSHCCGPDHQTILPNHGAQNIAHLTSLSYKVRMQALKCF VLAFFENPOVSMTLVNVLVDGELLQIFVRLQORDKP IEMQLTSA KCLTYMCRAGAIRDDNCIVLKTLPCLVRMCSKERILLERBEVGA ETLAYLIEPDVELQRIASITDHLIAMLADYKYPSSVSAITDIK RLDHDLLKHAHELQAAFKLYASLGANDERYKKVSLGREGPPVL TASRQGVTS
6686	310	927	DSVTFDDLAVDFTPKWTLLDPTQRNLYRDVMLENYKNLATVGY QLPKPSLISWLEQESRTVQRGDFQASEWKVQLKTKELALQODV LGEPTSSGIQMGSHNGGEVSDVRQCGDVSSHH3CLKTHVRTQN SENTFFCYLYGVDFLTLHKKTSTGEORSVFSHVWKKPSSLNPDV VCQKRNCTRKKA*F*LOLTLGKSPH*SIHT
6687	181	915	EAMLEAPYKKEDEQQRKEVKDYPSNTTSTSNSENETSGSST IGETSNRSDRDRYRRNRSSRSPGRQCRHRSRWDRRHGSES SRDHRRDRVHYRSPPLATGEPVDNLSPEERDARTVFCMQLAAR IRPRDLEDFFSAVGKVRDVRIISDRNSRRSGIAYVEFCIQSV PLAIGLTGQRLLGVPIIVQASQABKNRLAAMANNLQKNGGPMR LYVGS LHFNTTEDMLRGIFEPFGKV
6688	1025	1	AEVENVYPRVPHKCPDSCWRFKQPIQLQPYILLFSSEKPPISF SEPLPR/SATARMATAAAPNSSIDLPSDSGMGFI SPAGDSLD LPSDGGTGFFSLAGDSSSTRLLSLAFISFSLSSVSVGSSAGTTS STSVGSVVAAPTSSSSSSTNRDVAGLDFSTVITSVSGSLVPSRE VAVICGSKGAGASGSASCSSRAGKTRATAASSMPSGTSSPSTC TMSLEELFLSFPAPLLSKLFTSSGSLAICQDSGSPDTGRLS VCQLWLADSDTGKLSDCQEVVTVGDSGGLTCPELSLGRM*MSLL

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			SSAVIPGYSSSSDSRLNTVFTVDLLCPFQTKSST
6689	640	1299	SSSASYATSATSISDTAFSGSLKLLHGLLSALDSSSRTS*STSS AEDSTFRICSPSVSDTSSDSSGSKDNVLILFSKVS*SCFSLSS FFSDSISFCFSSSSFCR*FVSSKVSQNALSSRLSNGPGSSK QRNSLTARQLAMSL*ATKF*RNACNPNCLSSKKSAL*LSLNQRF GGSASRKPQNISFNSQKCSALSYCCNFV*KPFEVSVSSENYPAF
6690	1	442	GTEGKMAATLGPLGSWQWRRCLSDRGSRMLLLLLLGGSGQP QQVGAGQTFEYLKREHSLSKPYQGVGTGSSSLWNLMGNAMVMTQ YIRLTPTDMQSKQGALWNRVPCFLRDWELQVHF*IHGQGGKNL\H GDGLAIWYTKDRMQP
6691	287	1401	LKTETSEEKARRYKDRPSQLNAVQEQKKNIAQESITLEDVAV DFTWEWQLLGAAQKDLRYDVMLEBNYSNLVAVGYQASKPDALFK LBQGEQLWTIEDGIIHSGACSDIWKVDHVLRLQSESLVNRKPC HEDAFENIVHCSKSQFLLGQNHDFDLRGSKLSNLTIVNQSK GYEIKNSVEFTGNGDSFLHANHERLHTA*IKFPASQKLSTKSP ISPKHQKTRKLEKHEVCSECGAFIKKSWLTDHQMHTGEKPHR CSLCEKAPSRKFM*TEHQRTHTGEKPYECPEGKAPLKKSR*LN HQRTHTGEKPYICSECGKGFQKGNLIVHQRIHTGEKPYICNBC /GKGFQKTC*LIHQRPHTER
6692	178	939	WIKEGELSLWERFCANI*IKAGMPKHI*AFIMDGNRRYAKKQV RQEGHSQGFNKLAE*TLRWCLNLGILEVT*VYAFS*ENFKRSKSV DGLMDLARQKFSRLMBEKEK*QKHGVCIRVLGDLHLPLDLQEL IAQAVQATKYNKCF*LVNVC*FAYTSRHEISNAVREMAWGVQGLL DPSDISESLDKCLYTNRSPHPDILIRTSGEVRLSDFFLWQTS SCLVFQPV*LVWPEYTFWNLF*EAILQFQMNHSLVQK
6693	178	939	WIKEGELSLWERFCANI*IKAGMPKHI*AFIMDGNRRYAKKQV RQEGHSQGFNKLAE*TLRWCLNLGILEVT*VYAFS*ENFKRSKSV DGLMDLARQKFSRLMBEKEK*QKHGVCIRVLGDLHLPLDLQEL IAQAVQATKYNKCF*LVNVC*FAYTSRHEISNAVREMAWGVQGLL DPSDISESLDKCLYTNRSPHPDILIRTSGEVRLSDFFLWQTS SCLVFQPV*LVWPEYTFWNLF*EAILQFQMNHSLVQK
6694	292	813	SLLHLAPPGAYTPSQPLSSVSTETASSVRRQAASRQHEL*PVR EVHSLGQILPQDGLTARAGPPEAQDPWGSPGISLPAAHIGFAAA LAVGPGSGCHTEP\FDEVWPSLFLGDAYAARDKSKLIQLGIT*HVV NAAAGK*FQVDTGAKFYRGMSLEY*YGI*EADDNPF*FDLSVYFLP
6695	292	813	SLLHLAPPGAYTPSQPLSSVSTETASSVRRQAASRQHEL*PVR EVHSLGQILPQDGLTARAGPPEAQDPWGSPGISLPAAHIGFAAA LAVGPGSGCHTEP\FDEVWPSLFLGDAYAARDKSKLIQLGIT*HVV NAAAGK*FQVDTGAKFYRGMSLEY*YGI*EADDNPF*FDLSVYFLP
6696	1	782	PRVRGRVGERWAF*LSVPAAMSS*EMEPLL*LAWSYFRRRK*FQLCAD LCTQMLEKSPYDQA*WILKARAL*TEMVYIDEIDVDQSGIAENML DENAI*QVPRPGTSLKLP*GTNQTGGPSQAVRPITQAGRPITGFL RPSTQSGRPGTMEQAI*RTPTATY*ARPITSSSGRFVRLGTASML TSPDGPFINLSRLNLTKYSQKPKLAKALIEYI*PHENDVKTALD LAALSTEHSQYKDW*WK/DQIEKCY*YRVGM*YRBAEKQIKSS
6697	3	782	PPLFLRLNSRALRPGSRKVM*AVVPA*SLSGQDVGSFAYLTIKDR IPQILTKVIDTLRRHKSEFFEKHGBGVRAEKKAISLLSKLRNE LQTDKPFIP*LVKKFVD*DIWNQYLEYQSSLLNESDGKSRWFYSP WLLV\ECYMYRRI*HEAI\IQSP*IDYFDVFKESKEQNFYGSQES I*IALCTHLQQLRTIEDLD\ENQLKDEFFKLLQISLWGEISVDL SL\SGGESSSQNTNVLNSLEDLKP*FILLNDMEHLW*SLSNCK
6698	668	754	VGSCACAGSCCKCKCKCTSCCKKSECRAFP
6699	325	492	EGELP/PARRVLPRAMTAS*APGRRRPGVGVVVTSCKHPRCV LLGKRKGSV*GAGSQPLPGHLE*FGETWECAQRETWEAALHLK NVHFASV*VNSFIEKENYHYVTI*LMKGEVDVTHDSEPKNVPEKN

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			ESKRITTYNHAFPFQESKWSGGTILQ
6700	1098	1392	TQCWRSSSTPGMRTHFRTQP/RLECGQGFSQQENGHOMDTNECICQ FFVFCPRDKPVCVNTYGSYRCRTNKKCSRGEYPNEDGTACVERT LLGLCNLLGK
6701	2	1485	AAAGPRTVRRAAFEGQSPSPSGLGPTSDKAAAPRTPKRRRLW RQRQ/HPAMLCYVTRPDAVLMVEVEBAKANGEDCLNQVCRRLGI IEVDYFGLQFTGSKGSLWNLNRNISQMDGLAPYRLKLRVKF FVEPHLILQEQTTRHLFFLHKRALLAGHLCSPEQAVELSALLA QTKFGDYNONTAKYNYEELCAKRLSSATLNSIVAKHKELEGTSSQ ASARYQVLQIVSAMENYGIENHSVRDSEGGKLLICGVPEGISIC KDDFSPINRIAYPVVQMATQSGKNVLTVTKEGNSIVLLPKMI STRAASGLYRAITETHAFYRCDTVTSVAVMMQYSRDLKGLHLSLF LNENINLGKKYVFDIKRTSKEYVDHARRALYNAGVVDLVSRNNQ SPSHSPLKSSSESSMNCSSCEGLSCQQTIVLOEKLRLKKEAMLCM VCCBBEINSTFCPCGHTVCCESCAAQLQVGESAAHFCLQPHLSL LLTGSRSQVLAR
6702	397	1971	PLAKFLKLDLVNVLCLPMEDVFLFYRTCFCSMGLGSSCHLSLPK RARALLCSRKATVVVDLVAVRMAEBQEFTQLCKLPAQPSHPHCV NNTYRSAQHSQALLRGLLALRDEGILFDVVLVVEGRHIEAHRIL LAASCDYFKGMFAGGLKEMEQUEBVLHGVSYNAMCQILHFIYTS ELELSLSNVQETLVAACQLQIPEIHFCCDFLMSWDEENTLDV YRLAELFDLSRLTEQLDTYILKNFVAFSRTDKYROLPLEKVYSL LSSNRLEVSCETEVYEGALLYHYSLEBQVQADQISLHBPPLLET VRFPIMEAEVLQRLHDKLDPSPLRDTVASALMYHRNESLQPSLQ SPQTELRSDFQCVVFGGIHSTPS\MSSATRPKYLNPLLGWKKH FTASLAPRMSNQGIAVLNMFVYLIGDNNVQGFRAESRCWRYP RHNRFQIQSLQOEHADLSVCVVGRIYAVAGRDIYHNDLNAVER YDPATNSWAYVAPLKREVIHAGATLEGKMYITCGRKGRIIT
6703	45	1244	GVGPRAAAMPLELELCPRWVGQHPCFITAEIGQNHQGDLDVA KRMIRMAKECGADCAKQKSELEFKFNKALERPPTSXHSWGT YGEHKKRHLFSDHQYRELQRYAEVGIFFTASGMDMAVEFLHE LNVPFVKVSGDITNFPYLEKTA/IRGWHSVLRDVCGVQLNDE TSSNDVLGRVTSKSKVLMVLVDYSGRPMVSSGMQSMQMDTMKQ VYQIVKPLNPNFCPLQCTSAIPLQPEDVNLRVISEYQKLFDPDIP IGYSGHETGIALSVAVALGAKVLERHITLDTKTKGSDHSASLE PGELABLVRSVRLVERALGSPTKQLLPCMACNEKLGKSVVAKV KIPEGTILTMDLTVKVGEPKGYPPEDIFNLVGGKVLVTVEEDD TIMEE
6704	82	1007	TMNTRNRVNSGLGASPASRPTRDPQDPSGRQGLSPVEDQREG LEAAPKGPSRESVVHAGQRTSAYTLIAPNINRRNEIQRIABQE LANLEKWKQNRAPVHLVPRRLGGSQSETEVRQKQQLQLMQSK YKQKLKREESVRIKKBAEAEALQKMKAIQREKSNKLEBKRLQ NLRREAFREHQYKTAFL/RQTEHRIARQKCLSKCLWPTILN MQQKLGQ\DSLKABENRKLQKMKDEQHOKSELELEKQKQEQE RAKIHQTEHRRVNNAFDLRLQKGSQPGGLEQSGGCWNNNSGNSW GI
6705	2	786	RLCRNSARVPCGWSASRSLGEGAGFIGPLRGPHPRAGGTGTSFT SYKRRKGIMSTIAAFYGGKSILITVATGFLGKELMEKLFRTSPD LKVIYILVRPKAGQTLQHRVQILDSKLFKVIKLEVRPNVHEKIR AIYADLNQNDFAISKEDMQELLSCTNIIFHCAATVRFDDTLRHA VQLNVTATRQQLLMASQMPKLEAFIHISTAYSNCNLKHIDEVITY PCPVEPKKILDSLEW\LDLDAIIDEITPKLIRDWPNITYTYTK
6706	130	531	FTHSSSSHSQEMLGKLNMLRNDGHFCDITIRVQDKIPRAHKVVL AACSDFFRTKLVGQAEDENKNVLDLHHVTVTGFIPLLEYATAT LSINTENIIDLAAASYMQPFSVASTCSBFMKSSILWNTPNSPQ EK

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6707	2233	1343	YWSGIGYELQHFHWRKFFHEKKGPPSTCQBRLYESRSRWPCIS* GMVVVGWTAVNGSW*GGQLRCVCVCTSHSSDSTRSSQRASKCHS FFILSQ*KT*SSWENWVFAKYSRIYSYGHSCSKGRGD*DFK*NV SQAR*SRFCGLCNPCGHCGLDINLRGGSSPWTDKHSCVHNLLC NRRVFSLLCRGPGHCYQGAVCREACAAASPLDSDAEPHRLCEH TD*LPK*GPGYIQHFHCDNLCILYNISFNLFYSYF*GVARYA C*RCHNYFEWLLYNHCGDILVACL*RRQL*SSQ
6708	115	1729	TVGSWSRSRSPVGRQLLLTGRGAQAAGSPQGGMALQVELVPT GEIRVVHPRPCKLALGSDGVRVTMESALTARDRVGVQDFVLL ENFTSEAFENLRRRRFRENLIYTYIGPVLVSNVPYRDIQIYSR QHMERYRGVSFYREPPHLLAVADTVYRALRTERRDQAVMISVES GAGKTDATKRLQLYAETCPAPQGGAVRDRLLQSNPVLFAFGN AKTLRNDNSRFGKYMVDVQDFPGADVCGGILSYLLEKSRVVHQ NHGERNFHIFYQLLEGCEETLRRLGLERNPQSYLVLVKGQCAK VSSINDKSDWKVVRKALTVIDFTEDRVEDLLSLAASVLHLGNH FAANESNAQVTTENQLKYLTRLSSVEGSTLRBALTRKIKARG RELLSPNLQAAAYARDALAKAVYSRTFTLVGKINRSLASKDV ESPSNRSTTVLGLLDIYGFVFPQHSFEQFCINYNCKLQQLFI ELTLKSEQEEYAEGLIAWEPVQVFNKICDLVEEKFKGI\SI LDE\ECLEPGE
6709	3	894	PPHEHLFPSSGERGPFPSFLVSRRLGPGKMGKKGKKEKGRGAEK TAAKMEKKVSKRSRKEBEDLEALIAHPQTLDARTQTVELPCPP PSPRLNASLSVHPEKDELIIFGGEYFNGQRTFLYNELVYVNIK DTNKTVDIPSPPPRRCAHQAVVVPQGGGQVWVGGEFASPNGEQ FYHYKDLWVLHLATKTWEQVKSTGGPSGRSGHRMVAWKRQLILF GGFKESTRDYIYNDVYAFNLDFTWSKLSPSGTGPTPRSGCQ\ IPSLPRAASSVYGGYSKQVRKDVVDKGRHSDMF
6710	158	980	RHRMTNVRVSSSGRAARKMLALMGPAFIAAIGYIDEGNFATN IQAGASEPGYQLLVVVWANLMAMLIQILSAKLGIATGKNLAEQI RDHYPRPVVWFYVQABIIMATDLAEFTGAAIGFKLILGVSL QGAULTGIATPILMLQRGQKPLEKVIGLLLFVAAAYIVELI FSQPNLAQLGKGMVIPSLSPTSEAVFLAAGVL\GATIMPHVI/YI WHSSLTQHLLGGSRQQRYSATKNDVALAMTIAGFVNLAIMATAA SELNFYGHGTGA
6711	3	347	VTECKTMTCKMSQLERNI*TMINTLHHYSVKLGHPDITLHGEFK ELVRTDLHNILMKENKNDQAI*HIMEDLDINAHMQIIFKELIML MAMLTWSYHDNMHDADYQPGQOHRPG
6712	118	578	PHGQKRTYRYPQVRAFGQPPQAQLAMALCLKQVFAKDKTFRPRKR FEPGTQRFELYKKAQASLKSGLDLRSVVRLEPPGENIDDWIAVHV VDFENRINLIYGTMAERCS*TSCEVMAGGPRYEYRWQDRQYRR PAKLSAPRYMALLMDWIESLI
6713	2485	3	QARGSDSEDCGFETQAEEDARARKLGPCRPILPTFPPTSECTSDVE PDTRMVRQAQNKKKKSGGFSMGLSYPVFKGIMKKYKVPETPI QRRTIPVILDGKDVAMARTGSGKTACFLLEPMFERLKTHSAQTG ARALILSPTRELALQTLKPTKEIGKFTGLKTALILGGORMEDQF AALHENPDIIATPGRIHVHVAEMSLLQSVVEYVVPDEADRLFE MGFAQLQEI IARI.PGGHQTVLFSATLPKLLVEFARAGLTPEVL IRLDVDTKLNEQLKTSFFLVREDTKAAVLLHLLHNVRPQDQTV VFVATKHAEYLTELLTQRVSCAHYISALDPTARKINLAKFTL GKCSTLIVTDLAARGLDIPLLDNVINYSPPAKGKLFHRVGRVA RAGRSGTAYSLVAPDEIPYLLDLHLFLGRSLTLARPLKEPSGVA GVDGMLGRVPOSVDDEDSGLQSTLBASLRLGLARVADNAQQQ YVRSRPAPSPESI KRAKENDLVGLGLHPLFSSRFEEELQRLRL VDSIKNYRSRATIFEINASSRDLCSQVMRAKRQDKRAIARFQO CQQRQEQEQEPVGPAPSRPALQKQPEKHEEEAGESEVDIFS EVVGRKRQRSGPNRGAKRRREARQRDQEPYIPYRPKDFDSERG

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			LSISGEGGAFEQQAAGAVLDLMGDEAQNLTGRQQLKWRKKRR FVGQSQGQEDKKIKTESGRYISSYKRDLYQKWKQKQID+S*L GERRGILTRRRPRTTEVGEARPLAQAGCIPGPAPRHPLQAESA LELKTKQILKQRRRAQKAALSQRWWPQAALCPQ
6714	169	1416	NNCQELLPPPPAPMAHIPSGGAPAGAAPMGFPQYCVCKVELSVS GQNLDRDVTSKSDFFCVLFTENNGRWIEYDRTETAINNLNPAF SKKPVLDYHFBVQKLFALPDQDKSSMRIDEHDFLGQFSCSLG TIVSSKKTIRPILLNDKPAKGLITIAAQLSDNRVITLSLAG RRLDKKDLFGKSDPFLFYKPGDDGKMWLVHRTVIVIKYTLDPVW KPFTVPLVSLCDGDMKPIQVMCYDYDNDGGHDFIGEFQTSVSQ MCEARDSPLEFECCINPKKQKQKKNYKNSGIIILRSCKINRDYS PLDYILGGCQLMFTVIGIDFTASNGNPLDPSSLHYINPMGTNEYL SAINAVGQIIQDYDSDKMFPALGFGAQLPDPWKVSHERPAINFNP TNPPCSGVDGIAQYASACL
6715	32	493	GPAGAESGSLHCLPATVQALAGAAHSPHGGQPPRRGPLIGSOMP GKPKHLGVPNGRMVLAVSDGELSSITGPGQGGEGRGSSLSIHSI PSGPSPPFTTEBPVASWALSFERILLQDPIGLAYFTEFLKKEFS AENVTFWKACRRFQIIPASDT
6716	1	176	GAGGPAPRSFSGSEEFRAALERDKMSARAAAAKSTAMEETAINEQ HTVTILHRVSLCCSK
6717	115	896	LFAMSGFENLNTDFYQTSYSIDDSQSQSYDYGGSGGPYSKQYAG YDISQOGRFVPPDMQOPQPYTGQIYQPTQAYTPASPOPFYGNF FEDEPPLLEELGINFDHIWQKTLTVLHPLKVADGSIIMNETDLAG PMVFCLAGATLLLAGKIQFGYVVGISAIGCLGMFCLNLMMSMT GVSFGCVASVLGYCLLPMILLSSFAVIFSLQCMVGIILTAGIIG WCSFSAKIFISALAMBGQQLLVAYPCALLYGVFALISVF
6718	290	599	KQ3STVPGTILPSLKHNSGLCKFPETGGMITTFKEGLTFKDVAVIFTEELGLLDPVQRNLYQDVMLENFRNLLSVGHHPFKHDVFL LEKEKKLDIMKTATQ
6719	1	691	PTRPREQDREDGKCHKMEMNPISGNLNCDFIAMSQCSSDHGCET DLDSDDDKIEKPNPFMKDSASQDNGLSRKISRKRVCSSDSDSL QVVKSSKARTGLLRITRRCAATAANKIKLMSDVEDVSLNVT RSKNGRKKPLHLACTTAKKILSDCEGSVHCEVPSEQYACEGKPP DPDESGSTKVLSQALNGSDSDMLNSEKRRHTNIHKIDAPSK RKSSSVTSSG
6720	3	822	HEVAEEAGGTVPYQRGTMPGTKRFQHVITPEPGKWELTGVEAA VPITEKSNPLTQDLKADAENIVRLGQCDAEIFQEEGQALSTY QRLYSESILITMVQVAGKVQEVLEKPDGGLVVLGGGTSGRMAP LMSVSFNQLMKGLGQKPLYTYLIAGCDRSVVASREGTEDSALHG IEBELKKVAAGKKRVIVIGISVGLSAPPFVAGQMDCCMNNTAVFLP VLVGFNPVSMARHPFPFPRILRSLTVFPSLRAPHYQITSLLFSM SVVTLISE
6721	3	822	HEVAEEAGGTVPYQRGTMPGTKRFQHVITPEPGKWELTGVEAA VPITEKSNPLTQDLKADAENIVRLGQCDAEIFQEEGQALSTY QRLYSESILITMVQVAGKVQEVLEKPDGGLVVLGGGTSGRMAP LMSVSFNQLMKGLGQKPLYTYLIAGCDRSVVASREGTEDSALHG IEBELKKVAAGKKRVIVIGISVGLSAPPFVAGQMDCCMNNTAVFLP VLVGFNPVSMARHPFPFPRILRSLTVFPSLRAPHYQITSLLFSM SVVTLISE
6722	1	390	RSWSKRTWQALPMAVLFLLFLCGTPQAADNMQAIYVALGEAVE LPCPSPTLHGDEHLSWPCSPAAGSFITLVAQVQVGRPADDPGK PGRSRLRLGNYSWLSEGSKEEDAGRYWCAVLGOHHNYQNW
6723	173	659	VCQYCTARMADFGISAGQFVAVVWDKSSPVEALKGLVDKILQALT GNEGRVSVENIKQLLSAHKESFDTILSGLVPGSTTLHSABEIL AEIARIILRPGGCLFLKEFVETAVDNNSKVKTASKLCSALTLSGL

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6724	173	659	VEVKELQREPLTPKEVQSVREHLGHESDNL VCQYCTARMADFGISAGQFVAVVWDKSSPVEALKGLVDKLQALT GNEGRVSVENIKQLLSAHKESSFDIILSGLVPGSTTLHSABIL ARIARILRPGGCLFLKEPVETAVDNNSKVKTASKLCSALTLSGL VEVKELQREPLTPKEVQSVREHLGHESDNL
6725	356	722	RRRTPPVILATMDDDLMLALRLQEEWNLQEAERDHAQESLSLVD ASWELVDPTFDLQALFVQFNDOFPNGQLAEVVKSVRMTLCAG ICSYEGKGGMCSIRLSPLLKLRPRKDLVEVPFV
6726	98	714	HLQMERKINRREKKEKEYEGKHNLEDITDQKNCKSTLMTLNVG GYLYITQKQTLTKYPTDFLEGIVNGKILCPFDADGHYFIDRDGL LFRHVLNPLRNGELLPLPOPRENQLLAQEAFFQLRGLAEVKS RWEKEQLTPRETTFLITDNHDSQGLRIFCNAPDFISKIKSRI VLVSKSRIDGFPPEFSISSNIIQPKYPIK
6727	1	831	FRGMGDERPHYYGKHTGTPQKYDPTFKGPIYNRGCTDIICCVLL LAIVGVAVGI IAWTHGDPRKVIYPTDSRGEFCGQKGTKNENKP YLFYFNIVKCAPLVILLEFQCPTPQICVEKCPDRYLYLNARSS RDPEYKQFCVPGFKNNKGVAEVLRDGDCPAVLIPSKPLARRCF PAIHAYKGLVMGNETTYEDGHGSRKNITDLVEGAKKANGVLEA RQLAMRIFBDYTVSWYWDIISLGIAMAMSLFIILLRFLAGIMG RGMIMGILVLGY
6728	486	935	FCSSWLRSIALSSLSWKMLVGLTGGIAGSKSSVIQVFPQGLCA VIDVDVMARHVVPQGYPAHRRIVEVFGTEVLENGDINRKVLGD LIFNQDPRRLQLNATTHPEIRKEMMKETFKYFLREPRTPSPRKK HVPALKRADSLMRDT
6729	259	1191	VGLTGAQSGRTASMGDRQRAVAGPALRRNLLGTVTTVGFLAQSV LAGVKKFDVPCGGDRDCSGGCQCYPEKGGRCQPGVPGQYNGPP GLQGFPGLOGRKGDKGERGAPCVTGPKGDVGARGVSGPGADCI PGHPGQGGPRRPGYDGCNGTQDSDGPGPGSGFTGPPGPQG PKGQKGEFYALPKEERDRYRGEPEGLVGFQGGPPGRFGHVQM GPVGAPGRPGPPGPGKQCGNRGLGPGVKGKGDVQGPQPN GIPSDTLHPITAPTGVTTFHPDQYKGEKSGEGPGRIGISLKGEE GIM
6730	784	1015	NMVDYEVVLGLQRYASPEDIKKAYHKVALKWHDPKNPENKEAE RKFEVAEAYEVLNSNDEKRDIDYKYGTBGLNEF
6731	1	446	GIRKRLHGAUVPRVEVSCPWETRESEGVHLERPTSPLKNNDGGS LDIYAGLDSAVSDASKSCVPSRNCILDYBEILTEEGTAKEATY NDLQVEYKQCLQMKELMKFKBIQTQNFSLINENQSLKKNISA LIKARVEINRKDEEI
6732	102	1205	GRWQRRPPFPSPPLWCLQPGGSDPQQLTLRHCLSHSPQDTPW AQRQVCYTAATTOAAPATRNCLPDHSGHRPTPPSRHRRHQEN LGSIKPSSRSTKATSTIMAGDGRRAVREGWGVYVTPRADI RGRLAPQNGGSSDAPAYRTPPSRQGRREVRFSEDPPEVYGDPE PLVAKERSPVCKRTRLEPRSDSAKEBVRRESAYYLSRQRRQPR PQSTEEMKTRRTTLQQHSEQPPLQPSVMTRRGLRDSHSSRE DEASSQDLSQTSKKTIVRSIQEAPAVSEDLVIRLRPPPLYPR YBATSVOQKVNPFSEGETEDDDQSSHSSTTVTKARSRDSDESG DKTTRSSSQYIESFW
6733	613	1311	RSCRQVGMRSRNGGASDGHISCPKPSIIGNAGKSLSEDAK KKKSNRKEDDVMASTVKKRLKTSGECEKTKKSLSLSKEDLI QLLSIMEGLQAREDVHMLKTEKTKPEVLEAHVGSAPKVLRL VLHRDAILAQEKSIGEDVYEKPISELDRLEBKQKETYRRMLEQL LLAEKCHRRTVYELENEKHKHTDYMNKSDDFTNLLEQERERLKK LLEQEKAYQARKE
6734	189	551	SAAMFPVFSGCQELQEKNSLELVSPKRVAVHFTWBEWQDLOD AQRTLYRDVMLETYSSLVSLCHCITKPEMIFKLEQGAEPWIVEE

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			TLNLRLSGGSKQVFSGICHRSLVELQEVHLV
6735	280	558	KSRAGVTKMSNPFLLKQVFNKDTFRPKRKFEPGTQRPFLHKKA QASLNAGLDLRLAVQLPPGEDLDNDWVAVVDFENRVNLIVGTI XDGCT
6736	195	808	MNYELNFKREMPNISKSLGLTNLNFLLKRLSSVLPLITDYVYFEN SSSNPYLIRRIEELNKTASGNVEAKVVCYRRRDISNTLIMLAD KHAKELBESSETTVRADLTDKQKHQLKHLRELFLSRQYESLPATH IRGKCSVALNLETESVLSYLDKEDTFYSLVYDPSLKTLLADKG ETRVGPRYQADIPMLLEGTFPCVFAVL
6737	150	1209	PVIMPLHFSFGDIVRPSCCVSSSPKLRNNAHSRLSYRPTDLS REDTGCNLQHSIRENIDDLNMEFNPSDHPRASTIFLSKSQTDV REKRKSLFINHHPPGQIARKYSSCSTIFLDDSTVSQPNLKYTIK CVALLAIYHIKNRDPDGRMLLDIFDENLHPLSKSEVPDYDKHN PEQKQIYRFVRTLESAAQLTAECAIVTLVYLERLLTYAIDICP ANWKRIVLGAILLASKVWDDQAVWNVVYDQILKDIITVEDMNELE ROFLELLQFININVPSSVYAKYVFDLRLSARANNLSFPLEPLSRE RAHLEAISRLCEDKYDLRRSARKRSASADNLTFRNSPAITS
6738	148	653	CACAEQPARAEVGAATAPVRWASGEMAPSGSLAVPLAVLVLLL WGAPWTHGRRSNVRVITDENWRRLLEGDWMIEFYAPWCPACQNL QPEWESFARWGEDLEVNIAKVDVTEQPGLSGRFYITALTPTIYHC KDGEFRRYQGPRTKDFINFISDKEWKSEIEPVSSWF
6739	3	631	SWPDMAREEVAKLEKHLMLLRQEVVKLQKLAETEKRCALLAAQ ANKESSSESFISRLLAIVADLYEQEQYSDLKIKVGDRIHSAHKF VLAARSDSWSLANLSSSTKELDLSDANPEVTMTLRWIYTDLELF REDDVFLITLMLKANRFQLQLLRERCEKGVMSLVNVRNCIRPYQ TABELNASTLMNYCAEILASHWVSEVEGVNKAL
6740	3	631	SWPDMAREEVAKLEKHLMLLRQEVVKLQKLAETEKRCALLAAQ ANKESSSESFISRLLAIVADLYEQEQYSDLKIKVGDRIHSAHKF VLAARSDSWSLANLSSSTKELDLSDANPEVTMTLRWIYTDLELF REDDVFLITLMLKANRFQLQLLRERCEKGVMSLVNVRNCIRPYQ TABELNASTLMNYCARIASHWVSEVEGVNKAL
6741	141	960	PLTLFPSSRARAGHTMNTSPGTVGSDPVLATAGYDHTVRFWQA HSGICTRTVQHQSQVNALEVTTPDRSMIAAAVQPVSLGYQHIRM YDLNSNNPNPIISYDGVNKNIASVGFHEDGRWMTTGGEDCTARI WDLRSRNLQCORIFQVNAPINCVCILHPNOAELIVGDQSGAIIHW DLKTDHNEQLIPEPEVSITSAHIDPDASYMAAVNSTLVPPFSCLL PLAIGILQEGEFESLARRGLLFLACQGCNCYVWNLTTGGIGDEVTO LIPKTKIP
6742	141	960	PLTLFPSSRARAGHTMNTSPGTVGSDPVLATAGYDHTVRFWQA HSGICTRTVQHQSQVNALEVTTPDRSMIAAAVQPVSLGYQHIRM YDLNSNNPNPIISYDGVNKNIASVGFHEDGRWMTTGGEDCTARI WDLRSRNLQCORIFQVNAPINCVCILHPNOAELIVGDQSGAIIHW DLKTDHNEQLIPEPEVSITSAHIDPDASYMAAVNSTLVPPFSCLL PLAIGILQEGEFESLARRGLLFLACQGCNCYVWNLTTGGIGDEVTO LIPKTKIP
6743	1	412	MHSTQDKSLHLEGDPNPSAAPTSTCAPRKMFKRISISKQLASVK ALRKCSDLKAIATTALIFRNSSDSGKLEKAIADKDLTQFRN FAGQETKPKYREILSELDEHTENKLDFFEDFMILLISITVMSDL LQNIIR
6744	95	1343	RTPARNRCAGCEVLSRFSSPNKASSFALQSAGGGLPAVRALRRD RQKVSTVGYGMDVEVDQDHEARKELPDSFDTTGTGSLGQBELT DLCHMLSLEEVAPVLQOTLLQDNLLGRVHFDQFKEALILILSRT LSNEEHFPQEPDCSLEAOPKYVRGGKRYGRSLPBFQESVEBFPE VTVIPLDBEARPSHIPAGDCSEHWKTORSEYEAEAGQLRFWNP DDLNASQSGSSPPQDWIEBKLEVCEDLGITRDGHLNRKKLVS

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			CEQYGLQNV D G E M L E E V F H N L D P D G T M S V E D F F Y G L F K N G K S L T P S A S T P Y R Q L K R H L S M Q S F D E S G R R I T T S S A M T S T I G F R V F S C L D D G M G H A S V E R I L D T W Q E G I E N S Q R I L K A L D P G L D G N I N L T E L T L A L E N E L L V T K N S I H Q A C I
6745	1	588	T F R D Q G N A Q R R R W L L G C A S W E S W E A A I A A G P G I P S S T A R Q Q N N P A A G T E C F A A V W A R G T A M G S V L S T D S G K S A P A S A T A R A L E R R R D P E L P V T S F D C A V C L E V L H Q P V R T R C G H V F C R S C I A T S L K N N K W T C P Y C R A Y L P S E G V P A T D V A K R M K S E Y K N C A E C D T L V C L S E M R A H I R T C Q K Y I D K Y G F L Q E L E E T A
6746	110	492	G A T G A M A K S A P A R H R R K R R S T P L T S S T L P S Q A T E K S S Y P Q T T E I S L M T V V A A I Q A V E K K M E S Q A A R L Q S L E G R T G T A E K K L A D C E K M A V E F G N Q L E G K W A V L G T L L Q E Y G L L Q R R L E N V E N L L R N R N
6747	247	484	E A V T F K D V A V V F T E E L G L L D L A Q R K L Y R D V M L E N F R N L L S V G H Q P F H R D T F H F L R E E K F W M M D I A T O R E G N S V Y A G V C
6748	201	665	M T T F K E A V T F K D V A V V F T E E L G L L D P A Q R K L Y R D V M L E N F R N L L S V G N Q P F H Q D T F H L G K E K P W K M K T S Q R E G N S G G K I Q I E M E T V P E A G P H E E W S C Q Q I W E Q I A S D L T R G Q N S I R N S S Q F P K E G D V P C Q I E A R L S I S X V Q Q K P Y R C N E C K Q
6749	95	719	R R E V K G D G V C P R A R G S P Q S Q Q F P S C A G G E G L Q S S G E A L D G A M S A G G P C P A A A G G G P G G A S C S V G A P G G V S M F R N L E V L E K F D K A F V D V L L L G E I D P D Q A D I T Y E G R Q K M T S L S S C F A Q L C H K A Q S V S Q I N H K L E A Q L V D L K S K L T E T Q A E K V V L E K R V H D Q L L Q L H S I Q L Q L H A K T G Q S A D S G T I K A K L S G P S V E E L E R E L K A N
6750	3	428	S C E S R R P G A K V W A S G A L P R D T T G L G S E Q F S G D V A Q S N R A T M G T T A P G P I H L L E L C D Q K L M E F L C N M D N K D L V W L E S I Q E E A E R M F T R E F S K E P I M P K T P S Q K N R R K R R I S Y V Q D E N R D P I R R L S R R K S R S S Q L S S R R
6751	152	1417	P T K A T E M A G A S V K V A V R V R P F N S R E M S R D S K C I I Q M S G S T T T I V N P K Q P K E T P K S F S F D Y S Y W S H T S P E D I N Y A S Q K Q V Y R D I G E E M L Q H A F E G Y N V C I F A Y G Q T G A G K S Y T M M K Q E K D Q Q G I I P Q L C E D L F S R I N D T N D N M S Y S V E V S Y M E I Y C E R V R D L L N P K N K G N L R V R E H P L L G P V V E D L S K L A V T S Y N D I Q D L M D S G N K A R T V A A T N M N E T S S R S H A V F N I I P T Q R R H A E T N I T T E K V S K I S L V D L A G S E R A D S T G A K G T R L K E G A N I N K S L T L G R V I S A L A E M D S G P N K N K K K K T D F I P Y R D S V L T W L L R E N L G G N S R T A M V A A L S P A D I N Y D E T L S T L R Y A D R A K I R C N A V I N E D P N N K L I R E L K D E V T R L R D L L Y A Q G L E D I T D M T N A L V G M S P S S S L S A L S S R N V
6752	24	1834	R N C V P P L G C Y R S R V K F H S D I K M Q Y S H H C E H L L E R L N K Q R E A G F L C D C T I V I G E F Q F A H R N V L A S F S E Y F G A T Y R S T S E N N V F L D Q S Q V K A D G F Q K L L E P I Y T G T L N L D S W N V K E I H Q A A D Y L K V E E V V T K C K I R M E D P A F I A N P S S T E I S S I T G N I E L N Q Q T C L L T L R D Y N N R E K S E V S T D L I Q A N P K Q G A L A K S S Q T K K K K A F N S P K T G Q N K T V Q Y P S D I L E N A S V E L F L D A N K L P T P V V E Q V A Q I N D N S E L E T S V V E N T F P A Q D I V H T V T V K R K G K S Q P N C A L K E H S M S N I A S V K S P Y E A E N S G E L D Q R Y S K A P M C N T C G K V F S E A S S L R R H M R I H R G V K P Y V C H L C G K A P T Q C N Q L K T H V R T H T G E K P Y K C E L C D K G F A Q K C Q L V F H S R M H G E E K P Y K C D V C N L Q F A T S S N L K I H A R K H S G E K P Y V C D R C G Q R F A Q A S T L T Y H V R R H T G E K P Y V C D T C G K A F A V S S S L I T H S R K H T G E K P F I C E L C G N S Y T D I K N L K K H K T K V H S G A D K T L D S S A E D H T L S E Q D S I Q K S P L S E T M D V K P S D M T L P L A L P L G T E D H H M L L P V T D T Q S P T S D T L R S T V N G Y S E P Q L I F L Q Q L Y
6753	2	1305	V P S L P Y P P Q K V V A H T E F T T S S D S E T A N G I A K P D P V M P G G E E K A S P F G I K L R R T N Y S L R F N C D Q Q A B Q K K K R H S S T G D S A D A G P P A A G S A R G E K E M E G V A L K H G P S L P Q E R K Q A P S T R D S A E P S S R S V P V A H P G P P P A S S Q T P A P E H D K A A N M P L A Q K P A L A P K P T S Q T P P A S

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			PLSKLSRPYLVELLSRRAGRPDPPEPSEPSKEDQESSDRRPPSPFP GPEERKQKRDDEEERATERKFPASPPLPATQOEKPSQTPEAGRKE KPMLOSRHSLDGSKLTEKVETAQPLMTLALQKQKGFREQQATR EERKQARRAKQAEKLSKENVSVSQPGSSSVSRAGSLHKSTALP EKKRPETAVSRLEERREQLKANTLPTSVTVETSYSSPAAPLVKE VSKRFSSPDDAPVSEPAWALAKRKARAWSDCPLIIR
6754	2	413	FVRRRRRLGGPEVNTMSSLHKSRIADFDVLKEPSTALEKLR LSPSGIPCEGGLRCLCNKILNLYLPLERASWTSILAKQRELYAO FLREMIQPGIAKANMGVSREDVTFEDHPLNPNPDSRWNTYFKD NEVLL
6755	298	1343	PGLQLQVALEADWFLDMPGRRGSPSRQQLSEALPSLQTLVGGG CGNGTGLNRNRGSAIGLPVPPITALITPGPVRHCQIPDLVPDGS LLFRLFFIYLLVALFIQYINIKYVWVYPYNHPASCTSLNFHL IDYHLAAPTIVMLARRLVWALISEATKAGAASMIHYMVLISARL VLLTLCGWVLCWTLVNLFRSHSVNLLEFLGYPFVYVPLCCFHQ DSRAHLLLDYNYVVQHEAVEESASTVGLAKSKDFLSLLLES LKQFNNATPIPTHSCPLSPDLIRNEVECLKADFNHRIKEVLFS LFSAYYVAFPLPCFVKVSGYITFCFLDLCVNYINWVFLV
6756	180	754	IRRALGSLPLSIPVSWGSLRTLYKQQQLRPRKVLCCQTRVQCHD LRSLQPOPGLKQSPCLRVLGQTGATTPGLRDLTCKELIILTE REAQKRKRKRKESGMALTQGPLTFRDVAIEFSQEWKSLDPVO KALYWDVMLENYRNVLFLGKDNFALEVKICPRVFLYFLCCLSW PPHYLTETEALLTHK
6757	2	459	NSRVEAPEAHSRESQGSAMDARKHLSWWNIATVCMLLFSHLSAVQ TRGIKRRIKWNRKALPSTAIQTEAQAENRPGAFIKQGRKLDID FGAEGNRYEANYWQFPDGIHYNGCSEANVTKEAFVTGCINATQ AANQGEFQKPDNKLHQQLW
6758	1	1008	ASGPRLPGRFRDRAPWLPARLLRGVLAVVWSLSALPGPSFCRR RVPSLAQLGHSAAPSPDDVRWSRVPDRCEERDRANPPPPPS LPPSFRRNMANNSPALTGNSQPOHAAAAAQQQQCGGGGATK PAVSGKQGNVLPLWNGEKTMLNEMILTNILSSPYFKVQLYELK TYHEVVDIEYFKVTHVEPWEKGRKTAGQTGCGGVGVGTGGI VSTAFCLLYKFLTLKLRKQVMGLITHTDSPYIRALGFMYIRYT QPPTDLWDFESFLDDEEDLVKAGGGCVMTIGEMLSFLTKLE WFTLFPRIPIPVVQKNIDQQIKTRPRI
6759	1	513	RKHNFHSLDGTSTRAFHPTGLPLSSPVPPQRTQSGCFDLSS LLHLKSFSSRSPRCLNIEDDPDIHEKPLSSSAPPITSLSLIG NFEESVLNRYRDFLGIIVDGPTAEVGASGAFCPHTLTLPVEVSFY SVSDDNAPSPYMGVITLES LGKRGYRVPPSGTIGVVCVL
6760	239	606	VLSKKKGLSABEKRTMMBIFSBTKDVFLKDLKIAPEKGTIT AMSVKRVLQSLVDGMVDCERIGTSNYNAFPPSKALHARKHKL VLESQLSBGSQKHA8LQKSIEKAKIGRCETEERT
6761	29	1733	ERTLRGLREVAAPSVDADAASRRGRCCCLHCTQTQVAQDCPS SSSSVQRCLESLFQSLHTMTSKKLNVSVAGCADDALAGLVACNP NLQLLQGHRAVALRSDLSLKGRVALLSGGSGHEPAHAGFIGKG MLTGVLAGAVFTSPAAGSILAAIRAVAQAGTVGTLIVKNYTG RLNFGLAREQARAEPIPVEMVVI GDDSAFTVLKAGRRGLCGTV LIHKVAGALAEAGVGLLEIAKQVNVVTKAMGTGLVSLSSCSVP SKPTFELSADVELGLG IHGEAGVRRIMATADEIVKMLDHT NTTNASHVPVQPGSSVMMVNNIGGLSFLGLIADATVRSLEG RGVKIARALVGTFFMSALEMPGISLTLVDEPLKLIADARTTA ANPNVAVSI TGRKRSRVAPARPQEA PDSTAAGSASKRMALVL ERVCS TLIGLEHNLALDRAAGDGDGCTTHSRAARAQEWLKEG PPFASPAQLLSKLSVILLLEKMGSSGALYGLPLTAAQPLKAKT SLPAWSAAMDAGLEAMQYKGAAPGDRMTLDSLNAAGQRL

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6762	3	613	ASTISWRLCVAGAEARRPVPVAGERAGGGAMWFMYLLSWLSLFI QVAFITLAVAAGLYYLARLIBEYTVATSRIIKYMIWFSTAVLIG LYVFERFPTSMIGVGLFTNLVYFGLLQTFPPIMLTSPNFILSCG LUVVNHYLAFQFFAEYYPFSKVLAYFTFCLWIIDPAFPVLSA GENVLPSTMQPGDDVVSNYFTKGRGK
6763	2	760	SGPDFPGRFRGCCVRRFPAGAGMELGGHWMNSAPRLVSETAE RKQEQKTGTAEBAADSGAVGARRFLCLYLGGFLDLPGVSMVVP LLSLHVKSLGASPTVAGIVGSSYGLQLQFSSTLVGCNSDVGRR SSLLACILLGALGYLLGAATNVFLVFLARVPAGIFKHTLSISR ALLSDVVPKERRPLVIGHENTASGVGFILGPVVGGYI:TELEDGF YLTAFICFLVFTILNAGLVNFPFRREAKPGSTE
6764	80	438	LKMDTMMLSVRNLFQVLRRVEILSEGNEVQFIQLAKDFEDFR KKWQRTDHLGKYKDLLMKAETERALDVKLKHARNQVDVETKR RQRAEADCEKLERQIQLEMLMCDTSGSIQ
6765	3	550	ARYSRVDHFCRRRCRAVARAPRFLQFPSPSRHFLAACVARWL RGSVLVSEALSGSAMGDIVTEVAVGVKRGSDLLSGSVLSSPNS NMSMVTANGNDSKKPKGDKMDGAPSRVLHRLKPGKVTETE VLALGLPFGKVTNLLMLKGKNQAFLELATERAAITNGNYSAVT PHLRNQ
6766	1	1287	EGSPFKASLTWLNPIGEMKLHCEVEVISRHLPALGIRNRGKGV AVLSLCQQTSSRQPPVRAFLILSTLKDKRGTRYELRENIQFFT KFDVEGKATVRLKEPPVDICLSKANSSSLGFLSAMRLAHRGCM VDTPVSTLTPVKTSEFENFKTKMVITSKKDYPLSKNFPYSLEHL QTSYCGLVVRDMRMLCKSLRKLDSLHNHKKLPATIGDLIHLQ KLNLNDNHLRSFVALCHSTLQKSLWSLDLSKXIKALPVQPCQ LQELKNLKLDDNELIQFPCKIGQLINLRFLSAARNKLPPLPSEF RNLSEYLDLFGNTFFQPKVLPVILQAPLTLLESSARTILHNR IPYGSHIIPFHLQDLDLAKICVCGRFLNSFIQGTITMNLHSV AHTVVLVDNLGGTEAPIISYFCSLGCYVNSSDI
6767	336	919	APMILCSSLQFPRYKRAFLRDRGLQIGYCSVDDDPKMHFLNV GRLQSDNEYKDFAKRSQFHSSTDPGLLQAKRSQQLASDVHY RQPLPQPTCDPEQLGLRHAQKAHQQLQSDVYKSDNLNLRGVGT PPGSYKVMARRAAKLANARGLQLQGAIRGAEEVAGDHQSGEV NPDAITLHVKKKALL
6768	2	363	PGSTISCYLLSEGBLPLCMQVACGEBKHRAPTMTLRARFKKTE LRLSPDGLSGCPPCGPCPIPKPAARORRQSQDWGKSDBRLLQAV ENNDAIPVAALIAKGLVPTKLDPEGKSAFHL
6769	284	396	MSTPDFSTAENNQELANEVSCIKAMITLMLQAMGQAD
6770	1	397	QRNYQVWSSTMAKLHDYKYDEVVKLMTRFNYSVMQVPRVEK ITLNMGVGEALADKLLDNAADLAAISGQKPLITKARKSVAGF KIRQGYPIGCKVTLRGERMWEFFERLITIAVPRIRDPRGLSAKS
6771	3	378	APAGTLAMTGKSVKDVDRYQAVLANLLLEEDNKFACDQSKGPR WASWNIGVPICIRGAGIHRNLGVHISRVKSVNLDQWTQBIQCM QBMNGKANRLYEAYLPETFRRPQIDPYLFWNSLEG
6772	1	1400	AAAFLLQGMTVNGFINTVITSL\ERRYDLHSYQSGLLASSYDIAA CLCLTFVSYFCGSG\HKPRWLWGR\VLMTGCSLVFALPHFTAG P**GWKLDAGVRTCPANPR\PVCAG\HTSGLSRVQLVFMGLQFL HGVGATPLYTLGVTYLDENVKSSCSPIYIAIFYTAAILGPAAGY LIGGALLNIYTEMGRTELTETESPLWGANWVGFLGSGAAAFET AVPILGYPRQLPGSQRYAVMRAAEMHQLKDSRGEASNDPFGKT IRDPLSINLLKNPTFILLCLAGATEATLITGMSFSPKFLS QFSLASAEATLFGYLVVPAGGGGTFLGGFFVNKLLRGSVAVIK FCLFCTVVSLLGILVPSLHCPSPVMAGVTASYGCSLLPEGHNL TAPCNAACSCQPBHYSVPCGSDGLMYFSLCHAGCPAATEINVDG QKVYRDCSCIPQNLSSGFGHATAGKCTST

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6773	1	630	PWEAPKEHKYKAREHTVVLTVTGEPCHFFQYHRQLYHKCTHKG RPGPQWCATTPNFDDQDRWGYCLEPKKVDHCSKHSPCQKGGT CVNMPSGPHCLCPQHLTGNHCQKEKCEPQLLRFFHKNEIWTYRT EQAAVARCQCKGPDHACQRLASQACRTNPLHGGRCLEVEGHRL CHCPVGYTGPFCDVGE*GSGASRRPAPRWDLAR
6774	146	389	LTLSDDQYFLFFIIS/WVPTFLSMDVDGRVLIKADSFSKI ISS GLRIGFLTGPKLIERTVILHIQVSTLHPSTPNQMLISQ
6775	104	614	TCPQLRVLTARGGRRAPSPQLWTLVLALTEKKRSHRIIRMNS GRPETMENLPALYTIQGEVAMVTDYGAFIKIPGCRKQGLVHRT HMSSCRVDKPSRIVDVGDVWVVLIGREMKNDRIKVSLSMKVVN QGTGKDLDPNNV\SLSKKRGCGDPSRITLGRRSPLRLS
6776	3	1108	HERHERHEGALSQDALLRISIPLDSNMRPEKCRRFVHPQWQLIH LNGTFPNTSDADMEPCVDGWVYDRISFSSTIVTEWDLVCDQSLS TSVAKFVFMAGMMVGGILGGHLSDRFGRPFVLRWCYLQVAIVGT CAALAPTFLIYCSLRFLSGIAAMSLITNTIMLIAEWATHRFQAM GITLGMCPSGIAFMTLAGLAFAIRDWHLQLVVSVPYFVIFLTS SWLLESARWLIYNNKPEGLKELRKAHRSGMKNARDTLTLEIL KSTMKELEAAQKKKPFLEGRLEHMPNICKRISLLPPTKPFANFMA YFGLNLHG/LKHLGNVFLQLTLPQAV/TPPGQLVLHLGHNGSG RVSSRGVNCLEGLFVLQVM
6777	779	63	CFPHGPAWRDCEVRATFAKQGGSGIISCIASFPAQPLYACGSY GRSLGLYAWDDGSPALLGGHQGGITHLCPHDGNRFFSGARKD AELLCLNDLRQSGYPLWSLGEVTTNQRIFDLDPTGQFLVSGST SGAVSVMDTDGPGNDGKPEPVLSFLPQKDCITNGVSLHPSLPLIG HCLPVSVCFPLSPTESSGRRRGAGPSLGSPPRRHVHLECRLLQLWNC GGGARLQHP**SPRARKGR
6778	311	805	IQSITDESRSIRRKNPANTRLRNLVNP\BETAGDSE/ERSPEER VQADPRIRSASPKCPTSSPFPKGRSPEGEGET\DPBKVHFPHPG KDKSVAKN\KGP\SPVSSSGIKDFFSMKPEWENLQSNVRRMH T\AVRLNEVIVKSRDAKLVLLNMPGPPRRNGDENY
6779	2	535	RALRRQPRLLAANGIEPESMAISEPIKGSRKPCVNKEELALKKP MAKCAWKGPREPQDARAEAESPGGASESDQDGGHESPPKKKAV AWVSAKNPAPMRKKKVSLSLGPVSYVLVDSEDRKKPVMPPKGGPG SRREASDQKAPRGQPAEATASTSRGPKAKPGSPRRATNESRK V
6780	3	403	HEVNDNKPEININLMSPGKEEISYIFEGDPIDTFVALVRVQDKO SGLNGEIVCKLHGHEHFKLQKTYENNYLILTATLDREKRSEYS LTVIAEDRGTPSLSTVKHFTVQINDINPNPHQPSRYEPVISE K
6781	1	1269	APTRPVFFTLQDLSSSKEPSNSLNLPHSNELCSSLVHPELSEVS SNVAPSIPPVMSRPVSSSSISTPLPPNQITVFVTSNPITTSANT SAALPHTLQALMSTVVTMPNAGSKVMVSEGGQAAQSNARPOFI TPVFVNSSSIIQVMKGSQPSITIPAAPLTNSGLMPPSVAVVGPL HIPQNIKFSAPVPPNALSSSPAPNIQTGRPLVLSRATPVQLP SPPTSSPVVPGHPPVQVVKELNPDEASQVNTSADQNTLPSQ STIMVSPLLTNSPGSSGNRRSPVSSSRGKGVKIGQILTKAK KKVTGSLKGEQYAGDGETEGQGLDTTAPGLMGTBQLSTELDS KTFTPPAPTLLKMTSSVPGGTASAGPSLPGGALPTSVRSIVTT LVPELISAVPTTKSNHGGIASBSLAC
6782	3	1327	RKFTVIRIPAKPGKCLHEDFQSPFPLPAEKPIGNTFTSVSGKLS NVERTRNLESNHPGQTGGFVRVPPRLPPRPVNGKTIPTQQPPTK VPPERPPPKLSATRRSNKKLPNRRSSSDMLQKKQSNLATGLS KAKSQVFKNQDVLPPRPKPGHPLYSKYMLSVPHGIANEDIVSQ NPGELSCKRGDVLMKQTENNYLECQKGEDTGRVHLSQMLIT PLDEHLRSRFPFSPPKAPSHAQKPVDSGAPHAVVLHDFPAEQV

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			DDI NT SGEIVYLL KKIDTDWYRGNCN QIGIFFANYVKVI IDI PEGGNGKREC VSSHCVKGSRCVARPEYIGE QKDELSPSEGE II LKEYVNEEWARGEV RGRTGIFPLNFVEPVEDYPTSGANVLSTKV PLKTKKEDSGSNSQVNSLPAEWCEALHSFTARTSD DL SFKRGDR I
6783	3	1750	SYHHHHAQQSAAASP NLTASQKTVTTTSMITTKTLPLVLKAATA TMPASVVGORPTIAMVTA INSQKAVLSTDVONTFVNLTSSKVT GPGAEAVQIVAKNTVILQVQATPPQPIKVPQFIPPPRLTPRPNF LPQVRPKPVAQNNIPIAPAPPPMLAAPQLIQRPVMLTKFTPTTL PTSQNSIHPVRV VNGQTATI AKTFPMAQLTSIVIATPGTRLAGP QTVQLSKPSLEKQTVKSH TETDEKQTESRTITPPAAPKPKREEN PQKLAFMVSLGLVTHD HLEEIQSKRQERKRRTTANPVYSGAVFE PERKKS AVTYLNTMHPGTRKGRPPKYN AVLGFALTP TS PQS SHPD SPENEKTTTFTFPAPVQPVSLP STSDGDIHEDFCSVC RKSGQL IMCDTCSR VYHLDCLDP PLKTI PKGMN ICPRCQDQMLK KEBAIPWPGTLAIVHSYIAYKAAKEBEKQ LLKWSSDLKQRE LEQKVQ LSNSISKMEMKNTILARQKEMHSSLEKVKQLIRLIH GIDLSK VPDSEATVGAISNGPDCTPPANAATSTPAPSPSSQ SCT ANCNQGE STK
6784	3	1750	SYHHHHAQQSAAASP NLTASQKTVTTTSMITTKTLPLVLKAATA TMPASVVGORPTIAMVTA INSQKAVLSTDVONTFVNLTSSKVT GPGAEAVQIVAKNTVILQVQATPPQPIKVPQFIPPPRLTPRPNF LPQVRPKPVAQNNIPIAPAPPPMLAAPQLIQRPVMLTKFTPTTL PTSQNSIHPVRV VNGQTATI AKTFPMAQLTSIVIATPGTRLAGP QTVQLSKPSLEKQTVKSH TETDEKQTESRTITPPAAPKPKREEN PQKLAFMVSLGLVTHD HLEEIQSKRQERKRRTTANPVYSGAVFE PERKKS AVTYLNTMHPGTRKGRPPKYN AVLGFALTP TS PQS SHPD SPENEKTTTFTFPAPVQPVSLP STSDGDIHEDFCSVC RKSGQL IMCDTCSR VYHLDCLDP PLKTI PKGMN ICPRCQDQMLK KEBAIPWPGTLAIVHSYIAYKAAKEBEKQ LLKWSSDLKQRE LEQKVQ LSNSISKMEMKNTILARQKEMHSSLEKVKQLIRLIH GIDLSK VPDSEATVGAISNGPDCTPPANAATSTPAPSPSSQ SCT ANCNQGE STK
6785	1	528	LGNTVLHYCSMYSKPECLK LLR8RKP TVDIVNQA GETALDI AKR LKATQCEDLLSQAKSGKFNPHVHVEYEWNL RQREID ESDD DD LD KPSPVKKERSPRPQSFCHSS SSISPODKLALPGFSTPRDKQRLSY GAFTNQIFVSTSDSPTSP TTEAPPLPRNAGK PTGPPITPHR
6786	1820	1397	RSPKVLVLAP TRELANHVS RD FDI \TRKLT VARFYGCTSY QSQ INHIRENGIDILVGT PGRIKDHQSGRLDLSKL RHVVLDEVDQML DLGFAEQVEDI IHESYKTDSE DN PQTL LP SEATCPQW YTTVA\RK YMKSRYEQVDLDGKMTQKAATTVEHLAIQCHWSQ RPAVIGDVLQ VYSGSGRAIIFCET KKNVTE MAN NEHIKONAQCL HGDIAQSQR EITLKG FPREGSPKVLVATNVA ARGLDIPEVDLVIQSSPPQD VES YIHRSGRTGRAGRTGICICFYQPRERGQ LYVEQKAGIT FKRVG VPSTM DLVKS KSM DAIRSLASVS YAAVDFFRPSAORLIEEK GAV DALAAALAHISGASSPEPRSLITS DKGFVTMTLES LEEIQDVSC AWKELNRK LSSNAVSQITRMCLLKGNMGVCFD VPTTESERLOAE WHDSDWILSVPAKLPEIEEY YD ENTSSNSRQ RS GWSSGRSG RS RSGGRSGGRSGRQSG RS SGRQD GR RRSGNRNR SRSG GHKRS FD*VFYHLVDFLSD FLVDSVYITGRQIDH LTLGLTGLIDH LTS HS SVWN
6787	2646	2270	PSSFPKNVPLEELEKPPK*KRSGLSLTPK SQIQNGP *PQ TFFF FELGSPSGVISAHCNLRLLGSSDSPAPASRVAGIIGTCH HAWLI LVFLVBMGFHHVGQAGL KLLTL \VIHPWP PKVLGLQT
6788	16	936	GGTVDLR\DM LAVSVLA AVRGQR/ATVRRRVRESNVL HEKSKGRT REGARDKMTSGDVL SNRKM FYLLKTA FP SVQINTEEHVD\ELDQ

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			EVILWGS*DS*GYPKCK*LLPKVPSR/RVLLSGLTPLDATQE\FTEEDLSK\YVTTMVCVAVNGKPMGLVHKPFSEYTANAMVDGGS NVKARSSYNEKTPRIIVSRSHSGMVKQVALQTFGNQTTIIPAGG AGYKVLALLDVPDKSQKADLYIHVTYIKWDICAGNAILKALG GHMTTISGEEISYTCSDGIEGGLLASIRMNHQALVRKLPDLEKT GHK
6789	2	678	GNGINVLTAPESAIKFMAYEQIKRLVW**PGDS*GF/YERLVA GSLAGATAQSSIIYPMVLRKTRMALRKTGGYSGMLDCARRILARE GVAIFYKGYVFNMLGIIIPYAGIDLAVYETLENAWLQHYAVNSAD PGVFFLLACGTSSTCCQLASYPLALVRTRMQAASIEGAEPT MSSLPKHILRTGEGAGLYRGLAPNFMKVIIPAVSISYVVYENLKI TLGVQSR
6790	2	4068	APPAGRRRRQAAPRAGCGAALLLWIVSSCLCRAWTAPSTSQKCD EPLVSGPLPHVAFSSSSSISSSYSPGYAKINRKGAGGWSFSDSD HYQWLQVDFGNRKQISAJATQGRYSSDWVTQYRMLYSITGRNW KPYHQDGNIAWAFPGNINSQGVVREHQLHPILARYVRIVPLDWNW EGRIGLRIEYVGCSTWADVINFDGHVVLPIRFRNKKMKTLKDOI ALNPKTSESEGVILHCEGQGGDYITLKLKAKLVLSINLQSNQL GPIYGHSTVMTGSLDDHWHWSVVERQGRSINLTDRSMQHFR TNGEPDYLDLDYEITPGGIPFSGKPSSSSRKNFKGCMESINYNG VNITDLARRKKLEPSNVGNLSFSCVEPYTVPVFFNATSYLEVPG RLNQDLFSVSFQFRTWNPNGLLVFSHFADNLGNVEIDLTSKVG VHINITQTKMSQIDISSGSLNDGQWHEVRFLAKENFALITIDG DEASAVRTNSPLQVKTEGKYFFGGFLNQMNSSSHSVLQPSFQGC MQLIQVDDQLVNLVEVAQRKPGSFANVSIDMCAIIDRCVPHCE HGGKCSQTWDSFKCTCDEGTGSGATCHNSIYEPSCEAYKHLGQT SNYYWIDPDGSGPLGLKVKYCNMTEDKVTIVSHDLQMOTPVVG YNPEKYSVTQLVYSASMDQISAITDSAEYCEQVSYFCKMSRLIL NTPDGSPYTWVGKANEKHYWGGSGPGIQKACCGIERNCTDPK YYCNCADADYKQWRKQAGFLSYKDLPLVSVQVVGDTDRQGSRAKL SVGPLRCQGDNRNYWNAASFNPSSYLHFTFQGETSADISFYFK TLTPLWGVPLENMGKEDFIKLLKSATEVSFSFDVGNPVEIVVR SPTPLNDQWHRVTAERNVKQASLQVDRLPQQIRKAPTEGHTRL ELYSQLFVGGAGGQGFGLGCIIRSLRMNGVTLDLEERAKVTSGFI SGCSGCHTSYGTNCRNGGKCLERYHGYSCDCSNTAYDGTFCNKD VGAFPEEGMWLRYNFQAPATNARDSSSRVDNAPDQONSHEDLAQ BEIRFSFSTTKAPCILLIYSSFTTDFLAVLVKPTGSLQIRYNLG GTREPYNIDVDHRNMANGQPHSVNITRHEKTIPLKLDHYPSVSY HLPSSSDTLFNSPKSLFLGKVIETGKIDQEIHKYNTPGFTGCLS RVQFNQIAPLKAALRQTNASAHVHIQGEELVESNCGASPLTLSPM SSATDPWHLDHLSASADFPYNPGQGAIRNGVNRNSAIGGVI A\VVIFTPSLCTP\VL*SR*HVSPhKGTLPINRAKAGSRQK KPGRRPSMNDPPTSQRPIDESKKEWPHLRGGYLA MG
6791	1801	1193	TGHEGAKGEGKDGDLGPRGERGQHGPKGKGYPGIPPEL/PGW SAVV*SWLTAASKVQAILLPQLE*LGQIAFMASLATHFSNQ NSGIISSSVETNIGNFFDVMTRFGAPVSGVYFFTFMMKHEDV BEVYVYLMHNGNTVFSMYSYEMKGS DTSNHA VLKLAGDEVW LRMNGALHGDHQRFTFAGFLFR TK
6792	33	1073	VRHTNWGVDMYLFSLGSESPKGAIGHIVSTEKTI LAVERNKVL PPLWNRTFSWGFDDFSCCLSGSYGSDKVLMTFENLAAGRCLCAV CPSPTTIVTSGTSTVVCWELSMTEGRPRGLRLQALYGHQTQAV TCLAASVTFSLLVSGSQDCTCILWDLHLTHVTRLPAHREGISA ITISDVSGTIVSCAGHLSLWNVNQPLASITTAWGPEGAITCC CLMEGPAWDTSQIITIGSQDGMVRVWKT/VGCEVCSWTASRRG APGSASKPRKPVQVGEPEGLESRAGR*HCFDRBAQQNQPVPTAL AVSRNHTKLLVGDERGRIFCWSADG*BERGSRSGTTPVG

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6793	2340	805	GRKEANY\YGSLLTQAGTVSLGLDARGQEVFPFSAVLPMVAPND LVPDGDWISSLNLAEMRRRAKVLWDGLQEQWLPHMEALRPRPSV YIPEFTIANQ SARADNLIPGSR AQLEQIRRDIRDFRSSAGLDK VIVLWTANTERFCBVIPLNDTAENLLRTIBLGLVSPSTLFAV ASILEGCAFLNGSPQNTLVPGALELAWQHRVFGGDDFKSGQTK VKSVLVDFLIGSGLKTSIVSYNHLGNNDGENLSAPLQFRSKEV SKSNVVDMDVQSNFVLYTPGEBDECVVIKYVPYVGD SKRALDE YTSBLMLGGTNTLVLHNTCEDSLAAPIMLDLALLTELQQRVSF CTDMDPEPQTFHPVLSLSLFLKAPLVPPGSPVVNALFRQRS CI ENILRACVGLPPQNHMLLEHKMERPGPSLKRVGVPVAATY PMLNK KGPVPAATNGCTGDANGHLQEBPPMPTT*GPGHTVSRLLFPAAP HDPTLKAPTNGKRCFSPSTWGSNGL
6794	169	1349	DDVKKRKPASAH*EKPGPPSRPGVRGRERAGGRSGHARS CR\ EPAPPAPAPPEDHPDEEMGFTIDIKSFLKPGKTYTQRCRLFPV NLPTDITBEDPKRLPERYGEPSEVFINRDRGFGFIRLESRTLAE IAKAELDGTILKSRPLIRFATHGAALTIVKNLSPVVSNELLEQA FSQFGPVEKAVVVDDRGRTGKGFVEFAAKPPARKALERCEG AFLLTTTPRPVIVSPMEQFDDDEGLPEKLMQRTQQYHKEREQPP RFAQPGTPEFYASRNKALDEMRKQORQVDRNIREAKEKLEAE MEAARHEHQLMLMRQDLMRQEKRLRLLELRNQLQKRKQIQLR HEREHRRREEMIRHRRQELRRQEGFPKINMYMENYVCHPLR
6795	1740	1010	GPRRQTQVRDHELDSE*DWAAQBTDCAQNSGERL*KGV/LENFS TMSKSAVKISLDDLNSPLCEQDQDLNMTALDTAMKRMDFNQ EKVNQIQRTVIEPLKKFGSVFPSLNAVKRRRQALQDYRRLQAK VEKYEKEKKTGPVLAQLHQAREELRPVREDFAKNRQLLEMPR FYGSRLDYFQPSFESLIRAQVVYSEMHKIFGDLSHQLDQPGHS DEQREERNEAKLSELRLSTVADD
6796	48	683	GKEIQIPTIKLANLLFGLE*PVGALGKGVVSP**SHVALGQLGW LTRAVRSSWRWELCVSAQEVVSQRS*SSPSFVGACPSLNPPET SVQEGORDCQR*LPRLFSALVGQPGCWPGQAPPERCV*PGRCKW HLQSQVLR*ERRRCCRCLEPFA*GWRRRHQRGLGIHPAPLGST SPPHPEGNSQOCRR*GWAAELRLPSSVVL*GKLG*
6797	1620	211	TERMTPSQPTRGSSCTRPSSMLNTSTWRCLTCHWCMRMSVVG V TLGPMAQGLLSASGTTTEATWTRPTHTLIRWLLTASRVDPF ERPPPPPSDDLTLLSSSSSYKNL/DAQIPQ/DWSMSPTSG*RP LTSRASSIMRSRTAIPAS*SRLLTKHTVGGSPSAWRPRPTSR S VSTPVSSSTETTASGSLTWSSSPAPCPSSAPAHSEASCK TSLWGS CGSGDGSACSGWNLSMAGTSCSSPAMCSPSRAPS* RSASRPRTWRATTSAASSWAPRRWCWNA*SAT*PSSTTTISS PHCGWPCPASCASAAWLSSTWATASVAGSCWGPIM*SSAHSW CLSACSRSSMGTCL*RSPP\SGASRAAAWCGSSPSSTFTPS ASSSTWCSASSRSSPAPTTPSSIPAAQARRASCRPTSHSART APPPASSAAGAARPAAFSAAGTTPRRSIRCW
6798	3894	1696	STISWESLESWLNKATNPSNRQEDWEYIIGFCIQINKELEG*VS ALWGQLRGSGLGRGTTMAKEGQPGSPRLSALECVLLVPQ\ PQIA VRLLAHKIQSPQEWALQALTYLGDVSEKVKTKVIELLYSWTM ALPEKAKIKDAYHMLKRQGIQSDPPIPVDRTLIPSPPRPKNP VFDDEEKSLLAKLLKSKNPDDLQKANKLIKSMVREDEARIQV TKRLHLLBEVNNVRLLEMLLHYSQEDSSDGDRELMKELFDQC ENKRRTLFKLASETDNDNSLODILQASDNLRSVINSYKTIIEG QVINGEVATLTPDSEGSQCSNQGTLLDLAELDTNSLSVLA PAPTTPSSGIPILPPPQASGPPSRSSSSQAEATLGPSSSTNAL SWLDEELLCLGLADPAPNVPPKESAGNSQWHLLQREQSDLDFFS PRPGTAACGASDAPLLQPSAPSSSSSQAPLPPFPAPVVPASVP APSAGSSLFSTGVAPALAPKVEPAVPGHHGLALGNSALHHLDAL DQLEEAQVTSCLVKPTTSPLFTTTTPARPLLPFTGPGSPLEQ

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			PLSFQSGSPKGPPELSLASHVPLESIKPSALPVTAYDKNGF RILFHFAKECPGRPDVLLVVVSMNLNAPLPVKSIVLQAAVFKS MKVKLQPPSGTELSPPSPIQPPAAITQVMLLANPLKREKVLRYK LTFALGEQLSTEVGEVDQFPFVEQWGNL
6799	3894	1696	STISWESLESWLNKATNPSNRQEDWEYIIGFCDQINKLEBG*VS ALWQQLRSGSLGRGTTMAKEGQPGSPRLSALECVLLVPQ\POIA VRLLAHKIQSPQEWELQALTYLGDVSEKVKTKVIELLYSWTM ALPBRAKIKDAYHMLKRGQIVQSDPPIPVDRTLIPSPPPRPKNP VFDDREKSKLLAKLLKSKNPDDLQEAANKLIKSMVREDEARIQKV TKRLHTELEVNNVRLLEMLLHYSQEDSSDGDRELKELFDQC ENKRRTLFKLASETEDNDNSLGDILQASDMLSRVINSYKTIIEG QVINGEVATLTLDPSEGSQCSNQGTLLDLAELDTTNSLSSVLA PAPTPPSSGIPILPPPPQASGPPSRSSSQAEATLGPSSSTSNAL SWLDEELLCLGLADPAPNVPPKESAGNSQWHLQREQSDLDFFS PRPGTAACGASDAPLLQPSAPSSSSSQAPLPPPPFAPVVPASVP APSAGSSILFSTGVAPALAPKVEPAVPGHGLALGNSALHHLDAL DQLLERAQVTSGLVKPTTSPLIPTTPARPLLFPSTGPGSPLFQ PLSFQSGSPKGPPELSLASHVPLESIKPSALPVTAYDKNGF RILFHFAKECPGRPDVLLVVVSMNLNAPLPVKSIVLQAAVFKS MKVKLQPPSGTELSPPSPIQPPAAITQVMLLANPLKREKVLRYK LTFALGEQLSTEVGEVDQFPFVEQWGNL
6800	404	1646	RRSPSTGLSPVPQSPSPSLSDYSIPWSLLSGTIAMATPGK*AG *POAW*IGLAPAIIFI/GLTRGRKQNKRMAGGSGDVDDAGDC SGARYNDWSDDDDDSNESKSIWYPPWARIQTEAGRARARARA RATRARRAVQKRASPNDDTVLSPQSLQKVLCLVEMSEKPYILE AALIALGNNAAYAFNRDIIRDGLGLPIVAKILNTRDPIVKEKAL IVLNNLSVNAENQRRLKVMNQVCDTITSRNLSSVOLAGLRLL TNMTVTNEYQHMLANSISDFRFLSAGNEETKLQVLKLLNLAE NPAMTRELRLAQVPSSLG\SLFNKKENKEVILKLLVIFENINDN FKNEENEPQONQFEGGSLFFFLKEFQVQCADKVLGIESHHDFLVK VKVGKFMALAEHMPKSKQ
6801	2	1755	SAEEFESQASVTMHDVDAESFVVLVDVCTYGRVSLSEANVERL YASDMLQLEYVREACASFLARRDLTNTAILKFAFAFGHRIKL RSQAQSYIAQNFQQLSHMGSIREETLADTLAQLLAVLRDLSLD VESEQTVCIVAVQMLRAAPKERGPSAAEVFKCVRMMHFTREDQD YLEGLLTYPVKKYCLDVIGALQMRYGDLKYSLVPPVPPSSSS /R*QQQLSCICSRKSTPETGYVCQGDGDLWTQPSLS\RYDPY SGDIYTPSPILTSFAHTKTVTSSAVCVSPDHDYLAAPRKDLW VYKPAQNSWQQLADRLLCREGMVAYLNGYIYILGRDPIITGVK LKEVBCYSVQORNQWALVAPVPHSFYSFELIVQNYLYAVNSKRM LCYDPSHNMWLNCAKRSDFQACVFNDIYICIDIPVMKVYN PARGBWRI.SNIPLDSETHNYQIVNHDQKLLITSTTPQWKKNR VTVEYDTRDQWNIIGTMLGLLQFDSGFICLCARVYPSCLEPG QSFITBEDDARSRSSTEWDLGDFSELDSESGSSSSSFDDRVWQ VAPORNAQDQGGSL
6802	157	1341	ETFPPLFFFLSKTPGKTASMAHFVQGTSRMIAAESSTEHEKCAE PSTRKNLMNSLEQKIRCLEKQKELLEVNQQNDQQFRSMKELYE RKVAELKTKLDAERFLSTREKDPHQQRKDDRQREDDRQRLT RDRLQREKEKERLNEELHELKEENKLLKGNKNTLANKEKEHYEC EIKRLNKALQDALNICKSFSEDCLRKSRVEFCHEEMRTBMEVLK QQVQIYEBDFKKERSDRERLNQEEELQQINETSQSQNLRLNSQ IKACOMEKEKLEKQLKQMYCPCNCGLVFHLQDPWVPTGPGAVQ KQREHPPDYQWYALDQLPPDVQHKAN/DWCLAPPPVCCQAG/PR TPGLK*SSCLWLEKC*NFRFILSKESPSVEVHTNRERQATRER G
6803	1	2203	KLSGRPYRHMGLVGTSKLYDIRKTI FTFTTQFIDQOQFYALDN

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			<p>KMIVEMLRITDLSYLCSRWRMTGQPTITFPISHSMLEDEGTSLSNS SILAALRKMQDGYFGGARVQTGKLSRELTTSCTHLSFMDPGPE GKLYSEDDYDDNYDYLESGNMNDYDSTSHARCGDEVARYLDHLL AHTAPHPKLAPTSQKGLDRFQAQVQTCDLMSLVTKAKELHVQ NVHMYLPTKLPQASRPSFNLLDSPHPRQENQVPSVRVBIHLPRD QSGEVDKALVLQKETSLSLQEQADILYMLYTMKGPDWNTLYN ERSATVRELLITELYGKVGELRHGGLIRYISGILRKKVEALDEAC TDLLSHQKHLTVGLPPEPREKTI SAPLPYEALTQLIDEASEGDM SISILTQELMVLAMYMRTQPGLEAFMRIRIGLI IQVMATELA HSLRCSAREATEGLMNLSPSAMKNLHHLISGKEFGVERK/SVR PTDSNVSPAISIHIGAVGATKTERTGIMQLKSEIKQVEFRRLS ISAESQSPGTSMTSPSGSPFSAVDQSSKDSRQGWQRRRRIDG ALNRVPVGFYQKVKVLQKCHGLSVBGFVLPSSSTIREMTPEIK FSVHVES/VLNVLLRPYRQLLEATLVLTMLADIEIHSIGSII AVEKIVHIANDLFLOEQKTLGP/DDTMLAKDPASG\ICTLR\VD SAPSGRGPMTYLS\RAA\ATYVQREFLP\HSICAMQ</p>
6804	1	951	<p>GSPGKKEKAKNKESLCMENSSNSSSDEDEETKAKMTPTKYN GLEEKRLSLRTGFPYSGFSEVAEKRIKLLANSDEQLQNSRAKDR KDVVSSIQGQWPKKTLKELFSDSDTEAAASP PPHAPBEGVABES LQTVABEESCSFVSLEKPPPPVNDVKPIEEKTEVNDKARFP SSGSNFSA*IPLPYLHLNRLHQSIL*QKGSRQSSVTVSEPLAPN QREVRISIKSETDSTIEVDSVAGELQDLQSERE*LASRF*COCKL KQ**SARTTS*KSLYRSEKSEKSGRRKFIKKAEEKP*SNSGK QKKEGKRHK</p>
6805	1539	206	<p>RQPDLYPKSPDVSSESSSLLSNDLPKPADGIKARNRNNYL VPSPVLRIIDHTAFSTEKSADIVICDEECDSPEVNNQQTQEBSP IEVHTAEDVPIAVEVHAISEDYDIETENSSSESLQDQDEEPPA KLCKILDKSQLNVTAAQKWNPLLRANSSGLYKCELFENSKYFS DLKQHMILKHKRTDSNVCVCKESFSTNMLLIEHAKLHEEDPYI CKYCDYKTVIFENLSQHIALTHFSHDLYWCEQCDVQFSSSELY LHFQSHSCDEQYLCOFCEHETNDPEDLHSHVVNEHACKLIELSD KYNNGHEGQYSLSKITFDKCKNPFVQCVQCFRSRLHTNVNRHV ALEHTKIPPHVCDDCGKGFSSMLE\IAKHLSHLSSEGIYLCQYW BYSTGQIEDLKIHLDPKHSADLPKCSDCIMRFGNERELISHLP VHETT</p>
6806	272	3794	<p>VALCFPNSDPVFMFADFYGCLLAEGLGPVPIEVPLTRKDAGSQV GFLGSCGVFLALTTDACQKGLPKAQTGEEVAAFGWPPLSWLVI DGKHLAKPKDWHPLAQDTGTGTAYIEYKTSKEGSTVGVTVSHA SLLAQCRALTQACGYSEARTLTNVLDPKRDAGLWEGVLTSMNR MHVSVVPYALMKANPLSWIQKVCYKARAALVKSRDMHWSLLAQ RGQRDVSLSSLRMLIVADGANPWSISSCDAFLNVFQSGRLRPEV ICPCASSPEALTVAIRPPDLGGPPPRKAVLSMNGLSYGVIRVD TEKLSVLTVQDVGQVMPGANVCVKLEGTPYLCKTDEVGEICV SSSATGTAYYGLLGITKNVFEAVPVTGGAPIFDRPFTRTGLLG FIGPDHLVPIVGKLDGLMVTGVRHNDVATALAVEPMKFVY RGRIAVFSVTVLHDDRIVLVAEQRPDASEEDSFQWMSRVLQAIT SIHQGVVYCLALVPANTLPKAPLGGIHSITKQRFLEGTILHPCN VLMCPHTCVTNLPKPRQKQPEVGPSMIVGNLVAGKRIAQASGR RLAHLSDSQARKFLFLADVLQWRAHTTPDHPFLFLLNAGTGT STATCVQLHKRAERVAALMEKGRLSVGDHVALVYPPGVDLIAA FYGCLYCGCVPTVRPPHPQNLGTTLPVVMIVEVSKSACVLIT QAVTRLLRSKEAAAADIRTWPTILDITDDIPKKKIASVFRPPSP DVLAYLDFSVSTTGILAGVKMSHAATSALCRSILQCKLYPSRQ IAICLDPYCGIGFALWCLCSVYSGHQSVLPPLLESNVSLWLS AVSQYKARVTFCCYSVMEMCTKGLGAQTGVLRMKGVNLSVCRVC MVVAERP\RIALTQSFSLKFLDGLGLPARAVSTTFGCRVNAIC</p>

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			LQGTAGPDPTTVYVDMRALRHRVRLVRRGSPHSLPLMESGKIL PGVKVILAHTEKGLGDSHLGEI WVSSPHNATGYT VYGREAL HADHFSARLSFGDTQTINARTGYLGFLRRTELTDASGGRHDALY VVGSIDETLELRGMRYPIDITSVIRAHRSIACAVFTWTNLL VVVVELDGLQDALDLVALVTNVVLEBEYLVVGVVVIVDPGVIP INSRGEKQRMHLRDGLADQLDPIYVAYNM
6807	1444	606	VGHDTVHAMFTCFPKCLGFSPPVNVTVSPRSEESH TTVSGGNG SVFQAGPQLQALANLEARRGSIGAALSSRDVSGLPVYAQSGEPR RLTOAQVAAPFGENALEHSSDQDTWDSLRSPGFCSPSSGGGAE SLP PGGPGHARAGHLGKVCDFLHNLHQPSPTSVLPTVAAPLE KILSVDSVAVDCAYRTVPKPGQPCPHGSLTTEGCLRLSGDLN RFPQGMVHSGQRELESVVAVGEAMA\LKFFMGAMSYCLDRSR FLFLPLMGLSCPLQVQ
6808	2063	737	GVGSGAASALARSPLASRLSSRRRTAPRSGAMQRLAMDRLML SRELSYLEHQVRVFFGSGVGLSLILGFSVAYAPYLLSSIARK PQLVTGGESFSPFLQDHC PVVTETTYPTVWCWEGRGQTLLRPF\ IYSKPPVQYRNELIKTADGGQISLWFDNDNSTCYMDASTRTI LLLPGLTGTSKESYILHMIHLSEELGYRCVFNRRGVAGENLLT PRTYCCANTEDLETVIHHVHSLYPSAPFLAAGVSMGGMILLNLYL KTGTSKTPLMAAATPSVGWNTFACSESLKPLNWLFPNYLTTC LQSSVNKHHRHMFVKQVMDHVMKAKSIREFDKFTSVMFGYQTI DDYYTDA SPSRLKSVGIPVLCNSVDDVFSPSHAIP IETAKQN PVALVLTSYGGHIGFLEGIWPRQSTYMDRVFKQFVQAMVEHGH RLS
6809	939	65	DYSGQTPVPTEHGMTLYTPAQTHPEQPGSEASTQPIAGTQTVPQ TDEAAQTSQPLHPSDPTKEQQPKRLHVSNI PFRFRDPLRQMF GQPGKILDVEI IFNEROSKGFVTFETSSDADRAREKLN GTIV EGRKIEVN NATARVMNKKTGNEPYTNGWKLNPVVGAVYGPEFYA VTGFYPTTGTAVAYRGAHLRGRGRAVYNTFRAAPPPPIPTYG AVVYQDGFYGA EI\LEATQPTDILSPLQRRQPTATVTAESTQLP TRITTPSGPRRPTALEPCETFFHRFLLGP
6810	939	65	DYSGQTPVPTEHGMTLYTPAQTHPEQPGSEASTQPIAGTQTVPQ TDRAAQTSQPLHPSDPTKEQQPKRLHVSNI PFRFRDPLRQMF GQPGKILDVRI IFNEROSKGFVTFETSSDADRAREKLN GTIV EGRKIEVN NATARVMNKKTGNEPYTNGWKLNPVVGAVYGPEFYA VTGFYPTTGTAVAYRGAHLRGRGRAVYNTFRAAPPPPIPTYG AVVYQDGFYGA EI\LEATQPTDILSPLQRRQPTATVTAESTQLP TRITTPSGPRRPTALEPCETFFHRFLLGP
6811	1522	658	DLVTVMSFVDCRVIASTHGH\KSWVSVVAFDPYTSVEEGDPMF FSGSDEDFQDLLHFGDRADSTQCRLSRNSTDSRFVSVTYRFG SVGQDTQLCLWDLTEDILFPHQPLSRARTHINVMNATSPAGSN GNSVTTPGNSVPPPLPRSNLPHSAVSNAGSKSSVMGAIASGV SKPATLSLHDKERHHEKDHKRNHSMGHSSKSSDKNLVTKTK TDPAKTLGTPLCPRMEDVPLLEPLICKIAHERLTVLIFLEDCI VTACQEGFICTWGRPGKVVSFNP
6812	4001	1682	EDAVFSLDLSTIIQGTWFLNGEELKSENEPQGVFPGALRYRIEQ KGLQHLRIILHAVKHQDSGALVGFSCPGVQDSAALTIQESPVHIL SPQDKVSLTFTTSERVVLTCELSRVDFPATWYKDGQKVEESELL VVKMDGRKHRLILPEAKVQDSGEFECEKTEGVSAFFGVTVQDPFV HVDPREHVFVHAITSECVMIACEV\DR\EDAPVRWYKDGQVEE ESDFVLENEGPHRRLLVLPATQPSDGGGEFCVAGDECAFTVTI TDVSSWIVYPSGKVYVAVRLE RVVLTCELCRPHAEVRWTKDGE BVVESPALLLQKEDTVRRLVLPVQLEDSCGYLCEIDDESASPT VVTBPPVRIIYPRDEVTLIAVTLCECVVLMCELSREDAPVRWYK DGLVEESEA LVLEKRDGPRCRLVLPAAQPEDGGEFVCDAGDDSA FFTVTVTEPPVQFLALETTPSLCVPAGPEPVVLSCELSRAGAPV

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			VWSHNGRPVQREGLELHAEGPRRLCTQAGPAHAGLYTCQSG AAPGAPSLSTFTVQVAPPPVRVVAPEAAQTRVRSTPGGDLELVH LSGPGGPVRWYKDCERLASQGRVQLEQAGARQVLRVQGARSDA GEYLCDAPODSRIFLVSVEEPILLVKLVSDLTPLTVHEGDDATFR CEVSPDPADVTWLRNGAVVTPGPORQSCCSYGGCRMCGQRKART CVSKWRQABWVQGPFCAGCEVGSPPCTTLACPNWPMGTSTASSS MVSYPWTPRATTAARATTIAPWPGSA
6813	9	836	SSTQRRPGVPAGPRPLDGYLGVAHDKPLRMHCRDCALVTSSCHL LHSRQGSQIDQTECVIRMDAPTRGYGRDVGNRSTSLVIAHSSI QRILNRHDLNVSQGTVFIFWGPSSYMRDGGKQVYNLHLLS QVLPRLKAFMITRHKMLQFDELKQETGQ\NRKISNTWLSTGW TMTIALELCDRINVYGMGPPDFCRDPNHPSVPYHYVEFGPDEC TMYLSHERGRKGSHPHFITEKRVFKNWARTFNIHFPQPDWKPBS LAINHPENKPVF
6814	3	737	KFRROEAN/ARERNRMHGLNDALDNLKRVVPCYSKQKLSKIET LRLAKNYIWALESILLRIGKRPDLTFVQNLCKGLSQPTTNLVAG CLQNLARSFLMQGGEAAHHTSPYSTFTYPPYHSPELTTPPGHG TLDSKSMKPYNYCSAYESFYRSTSPCASPOFEGPISPPPIY NGIFSLKQEBTLDYGNYNNGMHYCAVPPRGPIGQGMFRLPTD SHFFPYDLHLRSQSLTMQDELNAVFN
6815	906	553	QGLDPASQTKVVELLKDGSGRGRDRSSRDMMAGGAGPSESLE DVGPTAEWNGDGSGLRRSGSFGKLRDALRRSSEMLVKLQGGT PQRPNNPRMKRASSLNFLNKSVEEPTQPGG
6816	1	803	NLLKTHKF\LLGQDEDSLHVPVQMGNYQRYLKTASPLREID PDQPKRLHTFGNPFKQDKKGMIDEADEPVAGPQNKVKRPGEPN SPMSKRRRSMSSLLLRKPQTPPTVTHVGGKPPSASWFFPSYPN LIKPTLVHTDATIIHDGHEEKMEGQITPDGFLSKSAPSELINM TGDLMPPNQVDSLSDDFTSLSKDGILQKPGSNAFVGAKNCLS VDDQKDPVASTLGAMPNTLQITPAMAQGINADIKHQLMKEVRKF GRSK
6817	172	3457	LCMMDSPKIGNGLPVGPGTDIGISSLHMVGYLGKNFDSAKVPS DEYCPACKERKGLKALKTYRISFQESIFLCEDLQCTYPLGSKSL NNLISPDLEECETHPKPQKRKSLESSYKDSILLANSKKTRNYTA IDGGKVLNSKHNGEVYDETSSNLPDSSGQNPRTADSLENERI LEADTVDMATTKDPATVDVSGTGRSPQNEGCTSKLEMPLESKC TSFPOALCVQWKNAYALCWLDCILSALVHSERLKNTVTGLCSKE ESIFWRLLTKNQANTLLYSQSLSGVKDGDCKLTSEIFAEIET CLNEVRDEIFISLQPOLRCTLGDMESPVFAPLLKLETHIEKL FLYSFSDWFECSQCGHQYQNRHMSLVTFNTNVIPEWHPLNAAHF GPCNNCNSKSQIRKMVLEKVSPIFMLHFVEGLPQNDLQHYAFHF EGCLYQITSVIOYRANHHFTWILDADGSWLECDLKGPCSERH KKFVFPASEIHIVIWERKISQVTDKEAACLPKKTNDQHALSNE KPVSLTSCSVGDAASAEASVTHPKDISVAPRTLSDQDTAVTHGD HLLSGPKGLVDNLPPLTLEETIQKTASVSQNLNSRAFL\LENKPV AENTGILKTNLTLSQESLMASVSAPCNEKLIQDQFVDISFPPS VVNTNMQS VOLNTEDTVNTKSVNNTDATGLIQGVKSVEIEKDAQ LKQFLTPKTEQLKPERVTSQVSNLKKKETTADSQTTSKSLQNO SLKENQKKPFVGSWVKGLISRGASFMLCVSAHNRNTITDLOPS VKGVNNFGGFKTKGINQKASHVSKKARKSASKPPPISKPPAGPP SSNGTAAHPHAHAASEVLEKSGSTS CGAQLNHSSYGNIGISSANH EDLVEGQIHKLRKLKRLKAEKKLAALMSSPQSRTVRSENLE QVPQDGS PNDCHSIEDLLNELPYPIDIANESACTVPGVSLYSS QTHEILAEILLSPTFVSTELSENGEGRYLGMDGSHIPPPVPS EFNDVSQNTHLRQDHNYSPTKKNPCVQPDLSLTNNACVRTLNL ESPMKTDI FDEFFSSALNALANDTLDLPHFDEYLFENY
6818	2	240	RGFDKVLWT/LSGAVK\CVQFSRISPDGEEGYPGELKVVVTTYTL

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			DGGE/LHS/ATTEHKP/VQATPVNLT\TILTSTWQARLPQI
6819	1	961	GIPCTEMGNFDNANVTGEIEFAIHYCKTSLTICIKACKNLAY GEEKKKCNFYVKTYLLPDRSSQGRKRTGVQRNIVDPTFQETLK YQVAPALVTRQLQVSVWHLGTLARRVFLGEVITPLATWDFEDS TTQSFRRWHLRAKADKYEDSVQSNGETVRAKLVLPSRPRKLQ BAQEGTDQPSLEHQLCLVVLGAKNLPVRPDGTLNSPVKGCITLP DQQLRLKSPVLRKQACQWKHSFVPSGVTPAQLRQSSLELTVW DQALFGMNDRLGGT\RLGSKGDTAVGGDACSQSKLQWKVLSS PNLWTDMLVLH
6820	1014	340	GDMVYIVGHVPPGFPEKTQNKAWFREGFNEKYLKVVVKHHRVIA GQFPGHHHTDSFRMLYDDAGVPIISAMFITPGVTPWKTTLPGVVN GANNPAIRVFYDRATLSLKDMMVTYFMNLSQANAQGTFRNELEY QLTEAYGVPDASAHSMTVLDRIAGDQSTLQRYVYVNSVYSAG VCDEACSMQHVCAMRQVIDDAYTTCLYASGTTVPVQLPLLMAL LGLCT
6821	1088	518	EFDIYR/EVGGEFVPTVRDSSNGFPRTQHGSPSTVHPIQSPQN RFCVLTLDPETLPALATTLIDVLFYSHSTPKKAASSSPPESSIT FFAFSLIEGYI\SIUMDAETQKKFSDLLTSSSGELWRMVRIG GQPLGFDECGIVAQIAGPLAAADISAYYISTFNFHALVPEDGI GSVIEVLQRRQEGLAS
6822	1088	518	EFDIYR/EVGGEFVPTVRDSSNGFPRTQHGSPSTVHPIQSPQN RFCVLTLDPETLPALATTLIDVLFYSHSTPKKAASSSPPESSIT FFAFSLIEGYI\SIUMDAETQKKFSDLLTSSSGELWRMVRIG GQPLGFDECGIVAQIAGPLAAADISAYYISTFNFHALVPEDGI GSVIEVLQRRQEGLAS
6823	654	221	PPKLLSRWARMGHGDEIV\LSDLNFPGLLHLPVVGWRSVQTAC GIPQLLEAVLKLLPLDTVYESPAVMELVPSDKERGLQTPVWTE YESILRRAGCVRALAKIERFEFYERAKKAFVAVTGETALYGNL ILRKGVIALNPLL
6824	858	104	LLLAQRWGW\CCFFSLAVSVKMNVLFPAGLLPLLLTQFGFRG ALPKLGCAGLQVVLGLPFFILENPSGYLSRSFDLGRQFLFWTV NWRFLPREALFLHRAFLALLTAHLTLLLFALCRNHWRTGESILS LLRDPKRRKVPQPLTPNQIVSTLFTSNFIGICFSRSLHYQFVY WYFHTLPLYLWAMPARWLTHLLRLVLGLIELSWNTYPTSCSS AALHICHAVILLQLWLGFPQFPFKSTQHSKKAH
6825	3	1173	SSGEFGLOASDIMWTISDTGWILLITLCSLMEPNALGACTFVHLL PKFDPVLVILKTLSSYPIKSMGAPIVYRMLLQDDLSSYKFPHLQ NCLAGGESLLPETLENWRAQTGLDIREFYGGTETGLTCMVSKTM KIKPGYMGTAASCYDVQIIDDKGNVLPGETGDIQIRVKPIRPI GIFSGYVDNPDKTAANIRGDFWLLGDRGKDEGDFYQFMGRADD IINSSGYRIGPSEVENALMEHPAVVETAVISSPDPVRGEVVKAF VILALQFLSHDPEQLTKELQHVKSVTAPYKYPKIEFVLNLPK TVTGKIQRA\KLDRKWKMSGKAPCAVRHLRDIRLDSPLLSLSF PPGPIALPMDGYGDSLWEEHEYKFCIALVISTKLHVRC
6826	2304	954	LKTESYKPW/VNIALAFHLLGERASPNSEFWQPYITLPRRYDTP LYFEEDVRVYLQSTQAIHDVFSQYKNTARQYAYFYKVIQTHPHA NKLPLKDSPTYEDYRWAVSSVMTRQNQIPTEDGSRVTLALIPW DMCNHTNGLITTYNLEDDRCCEVALQDFRAGEQIYIFYGTRSN ABFVIHSGFFDNNSHDRVKIKLGVSKSDRLYAMKAEVLARAGI PTSSVFALHFTPEPISAQLLAFLRVFCMTEELKEHLLGDSAD RIFTLGNSEFPVSWDNEVRLWTFLEDRASLLKTYKTTIERDKS VLKNHDSVRAKMAIKRLGEKELEKAVKSAAVNREYRQOME EKAPLPKYEESNLGLLESSVGDRLPLVLRNLEEEAGVQDALNI REAIKAKATENGLVNGENSI PNGTRSENESINQESKRAVEDAK GSSSDSTAGVKE

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6827	1	779	SSVVEFGLSVLGGFLFLFVLENMLGLLRHRLRPRCCRRKRRL ETRNLDPENGSGMALQPLQAAPEPGAQOREKNSQHPPALAPPG HQGHSHGHQGGTDITWVLLGDGLHNLTDGLAIGAAFSIDGFSSG LSTTLAVFCHLPHLGDFAMLLQSGLSFRLLLSLVSGALGL GGAVALGVGLSLGPVPLTPFWVPGVTAGVFLYVALVDMPLALPSS GAPAYA\HVLQGLGLLGGCLMLAITLLEERLLFPVTTEG
6828	3	1654	KSQHG/WILQLMHSCKEGYVVDLKGKNGPLHRLMLDLNDRPFE IGHLSQTASLKRGSFQSGRDTTWRYKTPHRVAFVEKLTKLVLS QLENFWKLWISYVNGSLFSETAEKSGQTERSKNVRQRNDPKM IQEVMHSLVKLTRGALLPLSIRDGEAKQYCGWVKCELSGQWLA HAIQTVRLTHESLTALIPNDLLQTIQDLILDLRVRCVMATLQH TAEETIKRLAEKEDWIVDNEGLTSLPCQFRCIVCSLQSLKGVLE CKPGEASVPQPKTQBEVCQLSINIMQVFIYCLEQLSTKPDADI DTTHLSVDVSSPDLPFSIHEDFSLTSEQRLLIVLSNCCYLERHT FLNIAEHFPEKHNFQGIETKTQVSMASLKRDLQRLFENYIELKAD PIVGSLPEGIYAGYFDWKDCLPTGVVRNLYKALVNI IAVHAEV FTISKELVPRVLSKVIEAVSEELSRMLQCVSSPSKNGALQARLE ICALRDTVAVYLTPEKSSFKQALEALPQLSSGADKKLEBLN KFKSSMHLQLTQPAASSTMMKT
6829	1	782	MRMEAGEAAPAGAGGAAAGGKGVRLNVGGTVPLTTRQTLCR EQKSFSLRQCQBELQSDRDETGAYLIDRDPYFGPIINFLRHG KLVLDKDMAEBGVLEEARFYNIQPLIRI IKDRMEKDYTVTQVP PKHVYRVLCQCEBELTQMVTMSDGRFQELVNISSSYNGSED QAEFLCVSKELASTPGLSSESSRKTKSTEEQLEEQQQQBEV EBEVEQVQVEADAQEK/CCYKPEAPGCEAPDHLQGLGVPI
6830	1	939	MRPGSVENLSIVYRSRDFLVVKNHWDVRIIDSKAWRETLTLQQL RYRFPPELADPDTCYGFRCFCHQLDFSTSGALCVALNKAAGSAYR CPKERRVTKAYLALLRGHIQESVITISHAIGRNSTEGRAHTMCI EGSQGCENPKPSLTDLVVLEHGLYAGDFVSKVLLKPLTGRTHQL RV\HCSALGHPVVGDLTYGEVSGREDRPFRRMLHAFYLRIPDTT ECEVECTPDPFLPSLDACNSPHLLQSLDQLVQALRATPDPPPE DRGPRPGSPSALLPGPGRPPPPPTKPPETAQRGPGCLQWLSEWT LEPDS
6831	3	1087	SLFFGSSTPDNKAQEDLELTQSPSPVEKAVTVIDPEGTIPTNF NVAEKPADHSLSEVKLKTADPRGTLVKSGDQGVNKRKSMILSN VEDLQQPKFISEVSREDYGGKEISGDSERMINSVVTSADGENL EIQSYSLIGRKLVMEEAKTIVPPHVTDSCRKVPKPAIAPPKWNII SIFKEEPRSDQKQKSLSLFDVVDKVPQPKSASSNFASKNITKE SEKPESIILFVERSGSLIDFSEDRLKKEMQNPSTSLKISEEETK LRSVSPTEKKDNLNR\SYTL\AEKKVLAEKQNSV\APLELRDS NEIGKTQITLGSRSTELKESKADAMPQHFNEDYNERPKIIVG SEKKRDEKKKK
6832	1809	412	MGSGLISGPPQDNGSALKEPERAQEHS LNPAGGQHFFFYLLV VSLKKKRSEDDYEPIITYQFPKRENLLRGQCEBERLLKAIPLF CPPDGENWASLTYPRETFSFVLINVDGSRKIGYCRRLPAGPG PRLPKVYCIISICIGCFGLFSKILDEVEKRHQISMAYIYPPMQL REAAFPAQKTVTLKSFIPDSGTRFISLTRPLDSHLEHVDSSSL LHCLSFQILLQIPASAVLERKIIFLAEGSLTSLQCIHAAALLY PFSWARTYLPVVPESLLATVCCPTPFMVGVQMRPQOEVMDSPEE EVLLVNLCEGTFIMSGDEKDI LPPKLQDDILDLSLGGGINELKT AEQINEHVSGPPVQFFVKIVGHYASYIKREANGQGHFQERSFCK ALTSKTNRRFVKKFVKTLQFLSLPTQEAESKNPPAGYFQOKILE YBEQKKQ/TETKGKNCIRAVVNKD
6833	1	1129	PLMTLSQCGGIPGHGHSHGHGHCHGLPKGPRVKTSTRPGSSDIN VAPGEQCPDQERTNTLVANTSNSNGLKLDPADPENPRSGDTVEV QVNGNLVREPDMHELEEDRAGQLNMRGVFLHVLGDALGSVIVVV

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			NALVFFYFSWKGCEGDFCVNCPFPDPCAKFVRIINSTHASVVEA GPCNVLYLDPTLCVVMVCILLYTTYPLLKESALILLQTVPKQID IRNLKELRNVEGVVEVHELHVWQLAGSRIIATAHIKCEDEPTSY MEVAKTIKDVFNHGIHATTIQPEFASVGSKSSVVPCELACRTQ CALKQCCGTLPOAPSGKDAEKTPAVSISSCLELNNLEKKPRRTK AENIPA\VVIEIKN\IPNK\QPESSL
6834	78	1151	AGGERPAPIWRLLMLFTPSVSRKAEPAHIPINR*GA*E*RGGLP LCGSSASAYGWH*RLTPWSPGGS*HM*SSKAPVTQAREVLVAGP CSKLVLSGARGIVGTTVQVLVEAQPLILLFTGVWGLNLRAGE SRAL*LIBEVTVQRDAHLGNVVGCAQCLSQGQVGSALAKALLE AAAARDCKEVLTVSGDKQAEVSVRL*VRDVCVEBAGCVEFGQ AHGRPGLALAKRGGTNEVEEQVQVDGVQKLVLSAHECHELVAG QQDGEDQARTRLAQAGAHSAHGRRQQAFCRPHQEGVSCHE LQQVVGDAL*ARE*APQITVLLLEDVAQLRTGKKA*DLVVDVE QLLRQL
6835	1	834	GTPAADR\EASLELIKLDISRTFPNLCIFQGGPYHDMHSILG AYTCYRPDVGIVQGMSPFAAVLILNLDADAFIAFSNLLNKPCQ MAFFRVDHGLMLTYPAFEVVFEEENLPKLFAHFKNLTPDIYL IDWIFTLYSKSLPLDLACRIWDVFCRDGEFLFRTALGILKLF DILTKMDFIHMAQFLTRLPEDLPABELFASIIATIQMSRNKKWA QVLTALQKDSREMRGKSVPTLRLOREFALGTNQSPMPRLCC FRLTPGQPRRTDAL
6836	1	850	MSCGRPPPDVDGMITLKV\DNLTYYRTSPDSLRVFEKYGRVGDV YIPREPHTKAPRGFAFVFRHRRDAQDAFAAMDGAELDGRELRV QVARYGRDLPRSRQGRHAAEPEAA/RYGRRSRSYGRRSRSPR RRHRSRSGPSCSRSRSRSGRYGSRYSRSPYSRSPYSRYSR PYSRYSRYSRSGSHYSSSGYSNSRYSRYSRSHSKSGSSTS SRSASTSKSSARRSKSSSVSRSRSRSSSMTRSPRVSKRKS KSRSRSKRPPKSPBEEGQMSS
6837	1	1369	TGGAAGVAGNPGSDYFPFGGTAP/GGPRTRRP\SGTSSSGSKASGP PNPPAQGDGTSLSFNITLSTSGNDGKPVSGGGRGRGRKRDS GHVSPGTFPDKYSAAPDSGGAPGVSPGQQASGAAGVSSAGET RGAPTPEKALTPSPWKGAEILLGDQPDIGSLDGGAKSDSS PNVGEFASDEVSTSYANEDEVSSSSDNQALVKASRSPLYTGSP KLPPRGVAGAGEBGPAPPALGLGIMSNTSTPDSTGGGGPGH PGTPGLEQVTRPTSSSGAPPDEIHPIELQAIQLQRQFSSIS EDQPLGLKGKKGECAVGASGAQNGDSELGSCCSEAVKSAMSTI DLDLSLMAEHSAAWYMPADKALVDSADDDKTLAPWEKAKQNPNS KEAHDLPANKASASQPGSHLQCLSVHCTDDVDGAKARASVPTWR SLHSDISNRFGTFVAALT
6838	16	499	LTDTPPPKTHMTHHSISDYKATLRCWALGFYPMETLTWQDDE DQTRDMELVETRPAGDGTFOKNAAVVVPSSGE/Q/RYMCHVQHE GLPKPLTLRWEQSSQPTIPVIGIVAGLVLLGAVVTGAVVSAMC RKNSDRVSYSSEAASSDHAQGSDDVSLTACKV
6839	1	1195	AAPAGGGFDPEALSAPFGRHLSGLSWPQVKRLDALLSEPPIHG RGNFPPTLSVQPRQIRAGGPOHPGAG\IHVHRVRLHGSAAASHV HPESGLGYKDLDFVRMDLRSEASFQITKAVVLACLLDFLPAGV SRAKITPLTLKEAYVQKLVKVCITSDRWSLISLNSKSGKNVBLK FVDSVRRQFEFSIDSFQIILDSLLLPQCSTPMSEAFHPTVTG ESLYGDFTEALEHLRHRVIAIRSPKEIRGGGLLKYCHLLVRGFR PRPSTDVRLQRYMCSRFFIDFPDLVEQRRTLERYLEAHFGGAD AARRYACLVTLHRVNVNESTVCLMNHERRQTLDLIAALALQALAE QGPATAALANRPPGTDGVVPATVNYVTPVQPLLAHAYPTWLP CN
6840	4254	2061	ELQGDPSVDPVPSMAWCENSICVGFKRDIYLLIRVDGKGSIKEL FPTGKQLEPLVAPLADGKVAVGQDDLTVVLNEBGICTQKCALNW

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			TDIPVAMEHQPPIYIAVLPRYVEIRTFEPRLLVQSIETLQRPPI TS GGSNIYIVASNHFWRLIPVPMATQIQQLQDKQFELALQLA EMKDDSDSEKQQQIHHIKNLYAFNLPCKRFDESMQVFAKLGTDP THVMGLYPDLLPTDYRKQLQYPNPLPVLSGAELEKAHLALIDY LTQKRSQLVKLNDSHQSSSTPIMEGTPTIKSKKKLLQIIDTT LLKCYLHTNVALVAPLLRLNHNCHIESEHVLKKAHKYSELII LYKKGLHEKALQVLVDQSKANSPLKGHERTVQYLQHLGTENL HLI FSYSVVVL RDPFDGLKI FTEDLPEVESLPRDRVLGFLIEN FKGLAIPYLEHI IHVWEETGSRFHNCILQLYCEKVQGLMKEYLL SFPAGKTPVPAGEEEGELGYRQKLMFLEISSYDDPGRLLICDP PFDGLLEERALLGRMGKHEQALFTYVHILKOTRMAREYCHKHY DRNKDGNKDVYLSLLRMYLSPPSIHCLGPIKLELLEPKANLQAA LQVLELHHSKLDTTKALNLPANTQINDIRIFLEKVL EENAQKK RFNQVLNLLHAEFLRV\QERILHQQVKCIITEBKVMCVCKKK IGNSAFARYPNGVVVHYFCS\KEVNPADT
6841	1	3206	TPSTGTGKSNTPSSVPSAAVTPINBSLQPLGDYGVGSKNSKRA REKRDSRNMEVQVTQEMRNVSIGMGSSDEWSDVDQDIIDSTPELD MCPETRLDRTGSSPTQGI VNKAPGINTDSLHSLSTAGSEVIGD VDEGADLLGEFSGMCKEVENLLLENSQLLETKNALNVVKNDLIA KVDQLSGEQEVLRGBLEAAKQAKVKLENRIKLEEEELKRVKSEA IIAAREPKERAEDVSSYLCTESDKIPMAQRRRFRTRVEMARVLMB RNQYKERLMELQEA VRNTEMIRASREHPSVQEKKKSTIWQFFSR LFSSSSSSPPAKRPYPSPGNIHYKSPITAGFSQRNHAMCPTISAG SRPLEFFDDDDCTSSARREQKREQYRQVREHVRNDIGRLQACGW SLPAKYKQLSPNGGQEDTRMKNVPVVPYCRPLVEKDPTMKLWCA AGVNLSGWRPNEDDAGNGVKPAPGRDPLTCDREGDGEPKSAHTS PEKKAKELPEMDATSSRVNLTSTLTTSKVVIIIDANQPGTVVD QFTVCNAHVLCISSIPAASDSYPPGEMFLSDVNPEDPGADGV LAGITLVGCATRCNVFRSNCSSRGDTFVLDDKGQGEVATIANGKV NPSQSTERATEATEVPDPGPSEPETATLRPGPLTEHVFTDPAPT PSSGPQPGSENGPEPDSSSTRPEPEPSGDPGTAGSSAAPTMMWLG AQNGWLYVHSAVANWKKCLHSIKLSDSVLSLVHVKGRVLVALAD GTLAI FHRGRDGDQNDLSNYHLMDLGHPHHSIRCMVVYDRVWCG YKNKVHVIQPKTMQIEKSFDAHPRRESQVRQLAWIGDGVVWSIR LDSTLRLYHATHQHLDVDIEPYVSKMLGTGKLGFSFVRITAL LVAGSRLWVGTVNGVVISIPLTETTVLHRGQ\LLG\LRANKTSP TSGEG\ARPGG\I IHVYG\DDSSDRAARSFIPYCSMAQAQLCFH GHRDAVKFFVSVPGNVLATLNGSVLDSPAEGPGPAAPASEVEGQ KLRNVLVLSGGEGYIDFRIGDGEDDETEGAGDMSQVKFVLSKA ERSIIIVNQVSYTPE
6842	3	926	RCQQLSATILTDHQYLERTPICAILKQKAPQYRIRAKLRSYKPRRLFQSVKLCPCPKCHLLQEVPEHGLDI IFQDGTAKTPDVKLQN TSLYDSKIWTTKNQKGRKRVAVHFVRNNGILPLSNECLLLIEGCT LSEICKLSNKFNSVTPVRSGHEDLELLDLSAPFLIQGTVHHYGC KQWST*RSIQNLNSLVDKTSWIPSSVABALGIVPLQYVFMVTFP LDDGTGVLEAYLMDSDKFPQIPASEVLMDDDLQKSVDMIMDMFC PPGIKIDAYPWLECFIKSYNVNTNGTDNQICVQIFDFTTVAVDVI
6843	2	851	NHRKVLGSAKRYECNECGKSPAYTSSLIKHRRHTGERPYECSE CGRSPARNSSLIKHLRVHTGERPYECVCGKSFRRSSSLIQHOR VHTRERPYECSECGKSPSLRNLIIHQVRVHTGERHECGCGKSF SRKSSLI IHLRVHTGERPYECSDCGKSPAENSSLIKHLRVHTGE RPYECIDCGKSFRRSSFRHQRVHTGMRPYK*SKFWKFCPCPGF LLLQGRVHTGSRCEYCDKWKGIFFS*NASFFT*KSAPTEEVVPR CNECEKAPSPISLVTTTFT
6844	244	642	BHQLAGFELRKTQTSMSLGTTRKTDVKSTAYLSPOLEEDVPY QYDVKSEIYSPGIVLWEIATGDI PFQGCNSEKIRKLVAVKRQQS

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			PLGEDCPSELREIIDECEAHDFSVRPSVDEILKKLSTFSK*CIK I
6845	3	1519	VAVRDECYWRHVFWDQDLWMLLFLMCHPPTARARLEYRIRITLD GALENAQNLGYQGAKFANESADSGLEVCPEDIYGVQFVHVNGAV GLAFELYVHTTQDLQLFREAGGWDVVRABFWCSRVEVWSPREB KYHLRGVMSPEYHSGVNNVYTNVLVQNSLRFAAALAQDLGLP IPSQWLAVADKIKVPFVDFQNFHPEFDGYBPEGVVKQADVLLG YPVPPSLSPDVRKRLIYEAVTSPQGFAMTWSMFAVGWMLKLD AVRARGLLDRSFANMARPFKVTENADSGAVNFLTGMGGFTQA VVPFCTGFRVTRAGVTFDPVCLSGISRVSVSGIFPYQGNKLNFS SEDSVTVEVTARAGWAPHLAEALWPSQSRLSLPCHRVSPFRS AGRIQMSPPKLPSSSSSEFPGRFTFSDVRDPLQSPWVTLGSSSP TESLTVDPASE*SGTGASETSLGPSLWRLHPPPLGTLACHPS PAARLSGKVHAAWPEFKAPCL
6846	213	1258	LYFLKTIK*LNRLAEHP*YENEKLTCLRNTIMEQYTRTEESARG IIFTKTRQSAYALSQWITENEKFAEVGVKAHLIGAGHSSEFKP MTQNEQKEVISKFRGKINLLIATTVAEBGLDIKECNIVIRYGL VTNEIAMVQARGRARADESTYVLVAHSGSGVIEHETVNDPREKM MYKAIHCQNMKPEEYAHKILELQMQSIMEKKMKTKRNLAKHYK NNPSLITPLCKNCSVLACSGEDIHVIEKMHVNMTPSPFKELYTV RENKTLQKKCADYQINGEII CKCGQAWGTMVHKGDLPLCKIR NPFVVFRNNSTKKQYKKWVLEPITFPNLDYSECCLFSDDED
6847	1450	348	SMCWNSDRLEMLIDLALILYPPSYVPYTGHLSDDSLRSKYCLT WFDALNGVL*RAEAIQPHCVNAGDRMEKFRQKYWNKLQTLRQQ PFAYGTLTVRSLDTRHCLNEFNFPDPYSKVKQRENGVALRCF PGVVRSLDALGWERRQLALVKGLLAGNVFOWGAKAVSAVLESBP YFGFEAKRKLQERPWLVDSEWLQRLKGPPIKCALIFADNSG IDIILGVFPFVRELLRGTEVILACNSGPALNDVTHSESILVAE RIAGMDPVVHSALREERLLLVQTGSSSPCLDLSRLDKGLAALVR ERGADLVVIEGMGRAVHTNYHAALRCESLKLAVIKNAWLAERLG GRLFSPVIFKYEVPAR
6848	19	16	AMWNSLDGIRNTVLSNPKKNTLSLAMLKSLQSDILHDADSDND LKVIIISAEGPVFSSGHDLKELTREQGRDYHAEVFPQCSKVMHM IRNHPVPVIAVMVNGLATAAGCQLVASCDAVASDKSSFATPGVN VGLFCSTPGVALARAVPRKVALEMLPTGEPISAQEALLHGLLNK VVEARLQEEETMRITARKIASLSRPVVSIGKATFYKQLPQDLGTA YYLTSQAMVDNLALRDGQEGITAFLOKRPVWSHEPV*VEH
6849	70	821	SLGVDGSCLEGGSPAPRPQTDTSF*PVGNNATQQEDLYHQSYEC VCVLFAVSPDPKFEFYESNINHEGLECLRLNEIADFDLLSK PKPSGVEKIRTIGSTYMAATGLNATSGQDAQDAERSCSHLGT VEFAVALGSKLDVINKHSFNNFRLRVGLNHGFPVAGVIGAQKPQ YDINGNTVNVASRMESTGVLGKIQTRETAWALQSLGYTCYSRG VIKVGKGQCLCTYFLNTDLTRTGPPSATLG
6850	2	1235	ARGLNHEWTFEKLQHISRNAQDKQELHFLMISGVDPDAVFDLTD LDVILKLELIPAKIPAKISQMTNLQELHLCHCPAKVEQTAFSP RDHLRLCHLVKFTDVAEIPAWVYLLKNI RELYLIGNLNSNNKMI GLSLRELRLHLKILHVKSNTKVPSNITDVAPHLTKLVIHNDGT KLLVLNLSLKKMMNVAELELQNCLELRI PHAIPSLSNLQELDLKS NNIRTIEEIIISFQHLKRLTCLKLMHNKIVTIPPSITHVKNLES YFSNNKLESLEPVAVFSLQKRLCLDVSYNNISMIPETIGLLQNLQ HLHITGNKVDILPKQLFKCIKRLTNLGNQCITSLPEKVGQLSQ LTQLELKGNCCLDRIPAQLGQCRMLKSGLVVEDHLFDTLPLEVK EALNQDINIPFANGI
6851	1765	660	VSAQVSAREGENCLGNLADSSQESYKSLLEEARDCYPPSLLTLD LRDLFNQVEQSPLLSCPKAGTDLMSGRAREVGWMAAGLMIGAGA CYCVYKLTIGRDDSEKLEEEEGEEWDDQELDEEEDPIWDFPFT

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			MARPWTEGDWTEPGAPGGTEDRPSGGGKANRAHPKQRPFFYE HKNTWSAQNCNKGSCVLDLSKCLFIQKLLFAEPKADAGFPFSOD INSHLASLSMARNTSPTPDPTVRREALCAFENLNASIESQGGQIKM YINEVCRBTVSRCNSFLQAGINLLISMVIVNNMLAKSASDLK PPLISEGSGCAKQVQLKPLMGLSEKPVLAGELVGAQMLFSPMSL PIRNGNREILLETAP
6852	1	407	RTRGETYANFIKHNDGKNIFYAARTPATLFAVMFAMYIISGLT GFIGNLSIAVLNLMGLALIFLCTWAYVKYSGEPREIGTVIDQ IAETLWEQVLKPLGDNLMENIRQSVINSIKAGLTDQVSHHARL KTD
6853	3	469	GDSCAVCIELYKPNLVRILTCNHIFHKTCVDPNLLHRTCPMC KCDILKALGIEVDVEDGVSLSQVPVSNEIPNSASSHEDNRSET ASSGYASVQGTVEPLEEHVQSTNESLQLVNHEANSVAVDVIPH VDNPTFERDETPNQETAVREIKS
6854	1148	585	HESYIGTFDPEGLCVCAAIQWLQDNSASYFLNRKLVEPSTQAK PVKNITLRLMWIYSHHIYQDLRKKILDVGKRLDVTGFCMTGKPG IICVGEFKHECEEFWHTIRYPNWKHISCKHAESVETEGNGEDLR LFHSFPEELLLEAHGDYGLRNDVHMNLGQFLEFLKKHKEHVQFI LFGIESKSSDS
6855	1913	1148	GRVGRVGRICSPLSGANEYIASTDTLKTREVLVLTDTQDDLA KEPTSLPQDSDSETKESGLVLEGDKEIHQIFEDLDKKLALASRP YIPBGCIQRWAAEMVVALDALHREGIVCRDLNPNLILNDRGHI QLTYFSRWSEVEDSCSDAIERMYCAFEVGAITEETEACDWNWSL GAVLFELLTGKTLVECHPAGINTHTTLNMPFWVSEEARSLIQQL LQFNPLERLGAGVAGVEDIKSHFFFTFVDWAEMLR
6856	1617	997	VTQLVVSVDASTKDSLKKIDRPLFKDFWQQLDLSLKALAVKQR TVYRITLVKAWNVDELQAYAQVLSLGNPDFIEVKGVTYCGESSA SSLTMAHVPWHEEVVQPVRELVDLIPEYBIACEHEHNSCLLIAH RKFKIGGEWWTWLNYNRPQELIQBYEDSGGSKTFSADYMARTP HWALFGASERGFDPKDIRHQRKNKSKAISGC
6857	1	617	KGPRATAMVCVCSHPNCRQNHIPSHSAQTWCGSPPTASAPNH KIMAMEQKTLPSATEDAKEEGLEAQISRLAKLIGRLESKALWP DLQQRLSDEDDGTNMHLQLVRQEMAVCEQLSEFLDSLRLQYLRT TGVNRCPHITAVRLSDGPTFVIFYEFWETBEAWKRHLQSPCKAF RHVKVDTLSPQPEALSRLVPAANCTVGRD
6858	2	669	RSRGIKDFENDEPPLSSCGIFQSRIAGDALDSGIRISSVFASPA LRCVQTAKLILEELKLEKKIKIRVBPGEFETKWEAGKTTPTLM SLEELKEANFNIDTDYRPAFPLSALMPAESYQEYMDRCTASMVQ IVNTCPQDTGVILIVSHGSTLDSCTRPLLGLPPRECGDPAQLVR KIPSLGMCFCBENKEEGKVELVNPPVKITLTHGANAAPNWRNWI GN
6859	1	1150	GETMFKAKTKAKKKPRKRSDDSGGYNLSDI IQSPSSTGLLKSG KINSVSLPELLTSDSEGSYAGVGSERDLQSPDFTTGFHSDKIE AKVKPYVNGTSPVYSREDLKPWEKSPILKISAPQIPSNRIDTT SSASWVAGSPSPVSPVVDLRTIMEIESRQKCGATPKSHLGKT VSHGVKLSQKQKMIALTCKENNSGMNSMETVLFTPSKAPKPVN AWASSLHVSSEKSRFDLLEBKSVTSHSSGDHVKKVSPFKGIEN SQAPKIVRCSTHGTGPEGNHISDLLELSDSPNEWLSSTVAPSM VAPVTFASIVEELQEEALIRSREKPLALIQIEBHAIQDILLV YRAFNGPEEFVIVERTPOGPLAVPMWNKHGC
6860	1889	1515	DKDKKRQKRGIFPKVATNIMRAWLFQHLTHPYPSEEQKKQLAQ DTGLTILQVNNWFINARRITVQPMIDQSNRAVSQGAAYSPEGQP MGSPVLDGQQHMGIRPAGPMGGMGMMDGQWHYM
6861	1889	1515	DKDKKRQKRGIFPKVATNIMRAWLFQHLTHPYPSEEQKKQLAQ DTGLTILQVNNWFINARRITVQPMIDQSNRAVSQGAAYSPEGQP

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6862	2	471	MGSPVLDGQOHHMGIKIPAGPMGMMGMMGMDGQWHYM EEDIDREFHNKLLKLEKLEKQKPVNGEDKGDSCGVDTONSEGNA DEEDPLGPNICYDKTSFFDNISCDNRERRPTWAEERRLNAET FGIPLRPNRGRGGYRGRGGLGFRGGRGGGRGGTFTAPRGFRG GFRGGRGGREFADFEYRKTTAFGP
6863	2216	487	PQEPALKSEFSQVANSNTIPLPLPQPNCTKONGPCKQVCSTVGGSS AICSCFPGYAIMADGVSCEDQDECLMGAHDCSRRQFCVNTLGSF YCVNHTVLCADGYILNAHRKCVDINECVTLHTCSRGEHCVNTL GSFHCYKALTCEPGYALKDGECEVDCEAMGTHTCQPGFLCQNT KGSFYCQARQRCMDGFLQDPEGNCVDINECTSLSEPCRPGPSICI NTVGSYTCQRPNLICARGYHASDDGTKCVDNVECECTGVHRCGEG QVCHNLPGSYRCDCKAGFQORDAFGRGCLDVNECNASPGRLCQHT CENTLGSYRCSGASGFLAADGKRCEVDNECEAQRCSQCECANIY GSYQCYCROGYQLAEDGHTCTDIDCAQAGILCTFRCLNVFPGS YQCACPEQGYTWTANGRSCKDVDECALGTHNCSEATCHNIQGS FRCLRFPCPPNYVQVSKTKCERTTCHDFLEQONSAPRITHYQLN FQTGLLVPAHI FRIGEPAPFTGDTIALNIKGNEEGYFGTRRLN AYTGVVYLQRAVLBPRDFALDVMKLNWQGSVTTFLAKMHIFT TFAL
6864	2	2933	LADSSPSNLQIIKELLSMHHQDPALTKEFDYLPVDSRSSSG FVGLRNGGATCYMNAVFPQLYMQPLPSLLSVDVDDTDNDPDSV FYQVQSLFGLHLMESKLQYTVPENFWKIPKMNKELYVREQQDAY EFFTSLIDQMDYELKKMGRDQIFKNTFQGIYSQKICKDCPHRY EREEAFMALNLGVTSCQSLIISLDQFVRGEVLEGSNAYYCEKCK EKRTIVKRTCIKSLPSVLVIHLMRFGFDWESGRS IKYDEQIRFP WMLNMEPYTVSGMARQDSSSEVGENGSRSDQGGGSGPRKKVALT ENYELGVIVHSGQAHAGHYYSFIDRRGCGKWKYKFNDTVIE EFDLNDETLEYECFGEYRPKVYDQTNPYTDVRRRYWNAIMLFY QRVSDQNSPVLPKKSRVSVVRQEARDSLAPSSPEISPSQSSPR PHRPNNDRSLITKLVRKGEKKGLFVEKMPARIYQMVRENKLF MKNRDVYSSDYFSFVLSLASLNATLKHPPYPCMAKVSQLAIQ FLPQTYLRTKKLRVDTEEWIATIEALLSKSPDACQWLVEYFIS SEGRELIKIFLLECNVREVRVAVATILEKTLDLALFYQDKLKS HQLLEVLALLDKDVPECNCAQYFFLFNTFVQKQIRAGDL LRHSALRHMISFLLGASRQNNQIRRWSSAQAREFGNLHNTVALL VLHSDVSSQRNVAPGIFQORPPISIA PSSPLPLHBEVEALLFM SEKPYLLEVMFALRELTSLLALTEMVVYCCFCNEHFSPTMLH PIKNQLETAPPHELKNTFQLLHEILVIEDPIQVERVKFVFETEN GLLALMHHSNHVDSSRCYQCVKFLVTLAQKCPAAKRYFKENSHH WSWAVQWLQKRMSBYHTLQSNVSNETS TGTFTORTISAQDTLA YATALLNEKESGSSNGSESSPANENGDRHLQGSSESPMMIGEL RSDLDVDP
6865	1820	1242	DPERWKHLKSVTPPGSSVSTTPVQVRLQSPQSGSMMPSCNRS CSCSRGPSVEDGKNYGVRSYLHLFYEYAVPPKLEGIGEGEFLV LDQRAADYNQALGTCLAGTALCVAAGVLLAICLFWAMIGWLSQ DTKAEPLDPEADSHVEVFGDRPEQQLSPIFRNASGQSWFSPPAS PFGQSSVQTIQPKRDS
6866	1571	495	DCPRPRYTLYGLRATCMRDLDWANINAVSAFKALEQDLVNIKF IIEGMBEAGSVALEELVEKEKDRFFSGVDYIVISDNLWISQRKP AITVGTGNSYFMVEVKCRDQDFHSGTGGILHEPMADLVALLG SLVDSSGHILVPGIYDEVVPLTBEETINTYKAIHLDLLEYRNSSR VEKFLFDTKKEILMHLWRYPSLSIHGIEGAFDEPGTKTVIPGRV IGKPSIRLVPHMNVSAVEKQVTRHLEDVFSKRNSNKMVVSMTL GLHEPWIANIDDTQYLAAKRAIRTVFGTRPDMIRDGSTIPIAKMF QEIVHKS VVLIPLGAVDDGEHSQNEKINRWNYIEGTKLPAPFPL EMAQLH

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6867	2833	1704	GTRIMSQPRQKELAGFVRQKMLLDYSVVMGRVCVPQESRSPQSP LQSAESSPTAGKKLPEVPPSEEEBQEAOWNALLGRIFWDFLGEK YWSDLVSKKIOMKLSKIKLPYFMNELTLTELMGVAVPKILOAF KPYVDHQGLWIDLEMSYNGSPLMTLETKMNLTKLKEPLVEALK VGRIGKEGCRPRAPCLADSDSESSAGSSEEDDAPEPSGGDKQL LPGABGYVCGHRTSKIMRFVDKITKSKYFQKATETEFIKKKIBE VSNTPLLLTVEVQECRGTLANVIPPPTDRVWYGFRRKPPHVELK AREPKLGEREVTLVHVTDWIEKKLEQEFQKVFVMPNMDVYITIM HSAMDPRSTSCLLKDPPEAADQP
6868	1	346	RPTRPPTRPETIKNLILPYISDMNFVQDLCEDFYELFKTDKGF KATFESQMSVMRGQILNLTQALRDGKSPQLVQIPCVIVERSQG GSQGRIVHLSNSFTQTVNCRKPPFSEW
6869	3	1619	MYMERMDKRALISFWSVEHLKANKNEIPQLVGEIYQNFVFS KBISVEKSLYKEIQCLVGNKGIEVYKIQEDVYETLKDRYPS FIVSDLYEKLLIKESEKHASQMSINKDEMGPRDEAGRAVDDGT NQINEQASFAVNKLRELNEKLEYKQALNSIQNAKPKDKKIVSK LKDEIILIEKERTDLQHMARTDWCENLGMWASITSGEVTE NGEQLPCYFVMVSLQEVGGVETKNWTVPKRLSEFHNLRKLSEC VPSLKKDQLPSLSKLPKSIDHTFMEKPNQNLKPLQNLSDER LCQSEALYAPLSPSFDYLVKVDVQGGKNSPSLSSFLERLPRDF SHQEEETEEDSDLSYDGDVDRKDALAEPCFMLIGEIFELRGM FKWVRRTLIALVQVTFGRITNKQIRDTVSWIFSEOMLVYINIF RDAFWPNGKLAPPTTIRSKESQETKQRAQOKLENIIPDMLQSL VGQQNARHGIIKIFNALQETRANKHLLYALMBELLIELCPELRV HLDQLKAGQV
6870	1	1566	MAAVVAATRWQQLLVLSAAGMGASGAPOPPNILLIMDDMGWG DLGVYGEPSRETPNLDMAABGLFPNPYSANPLCSPSRAALLT GRLPYRNGFYTTNAHARNAYTPOEIVGGIPDSQQLPELLKKKG YVSKIVGKWHLGHRPQFHLPHKGFDWFGSPNCHFGPYDNKARP NIPVYRDWEMVGRYIEFPINLKTGEANLTQIYLQEALDFIKRQ ARHHPFFLYXWADATHAPVYASKPFLGTSQRGRYGDAREIDS IGKILELLQDLHVADNTFVFPSTSDNGAALISAPEQCGSGNPF GKQTFPEGGMRREPALAWMPGHVITAGQVSHQLGSLMDLFTSLAL AGLTPPSDRAIDGLNLLPTLLQCRIMDRPIFYRGDTLMAATLG QHKAFHFWTNSWENFRQIDFCPCQNVSGVTHNLEDHTKLPL IPLGRDPGERFPLSFASAEYQEALESRTSVVQQHQAELVPAQ QLNVCNWAVMNWAPPCEKLGKCLTPPESIPKKCLNSH
6871	209	1126	RMSLNPPIFLKRSENSKVFETKQSQTTSASRDLQNLCLAS QEVQLKAQSGRSKCLKCGSRMFYCYTCYVVENVPIDQIPLV KLPLKIDIIKHPNETDGKSTAIHAKLLAPEFVNIYTPCIPEYE EKDHEVALIFPGPQSISIKDISPHLQKRQIQQNVGKNDDEPKPS FKRKRTEBQEFCDLNDKCKGTTLKKIIPIDSTWNQTNKIFTDE RLQGLLQVELKTRKTCFWRHQKGPDTFLSTIEAIYYPLVDYHT DILKEKYRGQYDNLFFYSFMYQLIKNAKCSGDKETGKLTH
6872	880	459	FGLIMVVLSLIFMKGNCVREDLIFNFLPKLGLDVRETNGLPNT KKLITEYFVRQKYLEYRRIPYTEPAEYEFWGPRAFLETSMMLV LRFLAKLHKDPQSWPFHYLEALAECEWEDTDEBPDGTGDSAHG PSTRPPPR
6873	1929	955	DEQAVLCSKDKTYDLKIADTSNMMLFIPGCKTPDQLKKEDSHCN IHTEIFGFSNNYELRRRRPKLKKLKLMMENPYEGPDSQKEK DSNSSKYTTEDLLDQIQASSEEIMTQLQVINACKIGGYWRILEF DYEMKLLNHVTQLVDSSESWSFGKVPNLNCLQELGLEPEEMIEH CLKCYGKKYVDEGEVYFELDADKICRAARMLLQNAVKNLAEF QEVWQQSVPEGMVTSLDQLKGLALVDRHSRPEIIFLLKVDLPE DNQERFNSLFSLEKWTEDIAPIQDLCEKQTIGALLTKYSH SSMQNGVKVYNSRRPIS

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6874	1	307	DSIADHVNSAAVNVEEGTKNLGKAAYKLAALPVAGALIGGMVVGPIGLLAGFKVAGIAAALGGGVLGFTGGKLTQRKKQKMMKLTSSCPDLPSQTDKKCS
6875	1688	349	VIGTGERGNSASEKWEIMFNEELGDPPIIHSISLINAEEHSTA TLLRIEKEBELDMKSGFYVLEWVTISKKNQDNKKYELIKRDI LRKGSVPHYAAIEPDGNLMIVSYKSLTFVQAGQDLBNMDEDI SEKIKEPLYWQQTEDDLTVTIRLPEDNTKEDIQIQFLPDHINI VLKDHQFLEGKLYSSIDHESSTWIKESNSLEISLKKNEGLTW PELVIGDKQGELIRDSQAQAAIAERLMHLTSEELNPNPDKEKPP CNAQLEBECDFFEESSSLCRFDGNLTHTHVNLGSSNQYLFPSV IVDPKEMPCFCLRHVDALLWQPHSSKQDDMWEHIATFNALGYV QASKRDKKFFACAPNYSYAALCECLRRVFIYRQAPMSTVLYNR KEGRQGVQVAKQQVASLETNDPILGFQATNERLFLVLTKNLEFLI KVNTE
6876	41	1285	VGMTLIRHLLRPLCLVTSAPRILEMHPFLSLGTSRTSVTKLS LHTKPRMPPCDMPERYQVIFLVNSGSEANLAMLARAHSNNTI DIISPRGAYHGCSPYTLGLTNVGIYKMLPGGTGCPQTMCPDVF RGPWGGSHCRDSPVQITIRKCSAPDCCQAKDQYIEQFKDTLTS VAKSIAGFFAEP IQGVNGVVQYKGFLEKAPFLVRAGGVCIAN EVQTGFGRLGSHFNGFQTHDVLDPITVMKIGNGGPPMAAVITT PEIAKSLAKCLQHFNFTFGGNPMACAIGSAVLEVLKEENLQENSO EVGTYMLLKFAKLRFDEFIIVGDVRGKGLMIGIEMVQDKISCRPL PREEVNQIHEDCKHMLLVGRGSIFSQTFRAPSMCITKPEVDF AVKVFRSALTOHMERRAK
6877	1	778	GTSPSPARAYAPPTERKRFYQNVISITQEGGFHINTLDRKLTQP QAKLFTVPSEALAIIVATEWDSQODTIKYTTMHLTTLCNTSLDN PTQRNKDQLIRAAVKFLDITDTCYRVEPETLVELQRNEWDPII EWAEBKRYGVEISSSTSIMGPSIPAKTREVLSHLASNTWALQG IEFVAAQLKSMVLTGLIDLRLTVEQAVLLSRLEKEYIQKWGN IEWAHDYELQELRLARTAGTLFIHLCESTTVKHKLKKE
6878	931	263	QTLQGDFFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOGON LEEDTVTLEVLVAPAVPSCVPSALSCTVVELRCQDKEGNPAP EYTWFKDGRILLENPRLSQSTNSSTYMTNTKTGLQENTVSKLD TGEYSCEARNSVGYYRRCPGKRMQVDDLNSGIIAAVVVALVIS VCGLGVCYAQRKGYFSKETSFPQKSNSSSKATMTSENFKHTKSF II
6879	3	845	IRVIGESDIMQ8FLSESDENYNGVSDVELRVALPDGTTVTVRVK KNSTTDQVYQAIKAVGMDSTTVNYFALFEVISHSFVRKLAPNE FPHKLYIQNTYSAVPGTCLTIRKWLPTTEREILNDNDLAVTYP FHQAVDDVKKGYIKAEKSYQLQKLYEQRMVMYLNMLRTCEGY NEIIFPHCACDSRRKGHVITAIISITHFKLHACTEEOLENQVIA FEWDEMQRWDTDEEGMAFCFEYARGEKKPRWVKIFTYPFNYMHB CFERVFCELKWRKEEY
6880	2110	1437	RKDNCTAKEWTFPEAKWNTTARVFSHIRLGMGHVLIIVQCFISS MANIYNEKILKEGNQLTESIFIQNSKLYFFGILFNGLTGLQRS NRDQIKNCGFFYGHRAFSVALIFVTAFQGLSVAFILKFLDNMPH VLMAQVTTVIITTVSVLVDFRPSLEFFLEAPSVLLSIFIYNAS KPQVPEYAPRQERIRDLSGNLWERSSGDGEELERLTCPKSDSED EDTF
6881	2638	2244	NDSKWEIDHVTGALKMFFRELPEPLFTFNHFNDFVNAIKQEP RORVAAVKDLIRQLPKPNQDTMQILFRHLRRVIEENKERNMTYQS IAVFGPTLLKPEKETGNIAVHTVYQNQIVELILLELSSIFGR
6882	1	850	GIPAEQLWIYPVKSCKGVPVSEACTAMGLRSGNLRDRFWLVIN QBCNMVTAQEBRLVLISLTCDGDTLTLAAYTKDLLLPKPTPT TNVHKCRVHGLEIEGRDCGEATAQWITSFLKSQPYRLVHFEPH MRPRRPHQIADLFRPKQIAYSDTSPFLILSEASLADLNSRLEK

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			KVKATNFRPNIVISGCDVYAEWSDELLIGDVELKRVMACSRCLTTVDPTDGVMSRKEPLETLKSYRQCDSERKLYGKSPLEGGQYFVLENPGTIKVGDPVYLLGQ
6883	2794	2256	NSKLKLNQNLKLFITLTQVLSLHGWGPGIHLQKEGAPFVTQNRALQLLYDLRYLNIIVLTAKGDEVKSGRSKPDRIEKTVDHLEALI DPFDLVFTPHLSNHLRLVQRTSVLFGVLVTGTENQLAPRSSTFNSQEPHNILPLASSQIRFGLPLSMTSTRKAKSTRNIETKQYDANC
6884	2	99	EFERVTAEAVKPRETSEPRAAQRFCRKFPPL
6885	297	1554	STGQFHWVTDLHLDPTTHITDDHTKVCASSKGANASNPGPFQDVLCDSPPYQLILSAFDIFKNSGQEA SFMIWTGDSPPHVPPELSTD TVINVTNMTTTIQSLFPNLQVFPALGNHDYWPQDQLSVVT SKV YNAVANLWKPWLDEBAISTLRKGGFYSSQKVITNPNLRIISLNTN LYYGPNIMTLNKTDPANQFWELESTLNN SQONKEKYVIAHVFGYLPSSQNTIAMEYNNKLLIDIFOKYSDVIAGQFYGHTRDSI MVLSDKKGSPVNSLFVAPAVTPVKS VLEKQTNNGIRLFQYDPR DYKLDMLQYYLNLTEANLKGES IWKLEYILTQTYDIEDLPESLYGLAKQFTILDSKQFIKYNYFFVSYDSSVTCDKTCKAFQICA IMNLDNISYADCLKQLYIKHNY
6886	2	1341	QCGGIPGREGGSSRPLEEGTSSPACVIRGAAPGSEDAFYPTRAKQARVSQBLKKAARTVSI SEGPD L GDGMREERETLALAPPEPPEKEACEKWKRPFRSASATSLTSHCVDVVKGLLDFKKRRGHSI GGAPQERYQIIPVCVAARLPTRAQDVLD AHLSEVN AVREFGPNSS LLATGGADRLIHLWNVVGSRLEANQTLEAGGSSITSVD PDPGQYQLAATYNQAAQLWKVGRAQSKETLSGHKDKVTA AKFKLTRHQA VTGSRDRTVKEWDLGRAYCSRTINVL SYCNDVVC GDHIIISGHN DQKIRFWDSRGPHCTQVIPVQGRVTSLSLSDHDLHLSCSRDNT LKVIDLRVSNIRQVFRADGFKCGSDWT KAVFSPDRSYALAGSCD GALYIWDVDTGKLESRLQGGPHCAAVNAVWCYSGSHMVSVDQGR KVVLMQ
6887	1047	116	WTA RPSQKPFWRAGAVPGDPLSTGCSQAQLGGCCPRGPWPQHG GQQRAGPTLPGRERGPPQSGPGLAAQTPTTSKQVANRAFLTG TYRSQSPRSAPGPFRRGTGWVPEAVCLCVAVG PQLSSPGLVY NASGSEHCYDIYRLYHSCADPTGCOTGPDARAWDYQACTEINLT FASN NVTDMPDLPPTDELQRQYCLDTGWVWPRPDWLLTSFWGG DLRAASNIIFSNGLDPWAGGGRIRNLSASVIAVTIQGGAHLD LRASHPEDPASVVEARKLEATIIGEWVKAARREQQPALRGGPRL SL
6888	1	992	FVAYVKKKIPHIVVTHCLLNPHALVIRKTLPTKLRDALFTVVVRI NFIKGRAPNHLRQAFPEB IGIYSVLLPHTEMRWLSRGQILTH IFEMYEEINQFLHHKSSNLVDGFENKBFKIHLYADLDFKHLNE LSASMORTCMNTVSAREKLSAFVRKFPFWQKRIEKNPTNPFPI BBIIVSDNEGIFIAABITLHLQQLSNFFHGYFSIGDLNEASKWI LDFFLEFNIDFVDDSYLMKNDLAE LRASGQILMEFETMKLEDFWC AQFTAFPNLAKTALEILMPFATTYLCRLGFSITPTFQNKVPRAA LILSDDIRVAISKVPSFLGHH
6889	1	1534	LTLENQIKEREEDNSKSPNCRSTSPVSONNEQGSTLRDLITTT AGKLRVGSTDA G IAFAPVYSGAPSSKSGRTMPNILDIIASVV ENKIPPSKTSKINVKPELKEEPESIIISAVDENNKLYSDIPHSW ICEKHILWLKDYKNSSNNWLFKECWKQGPVAVSGVHKMNISL WKAESISLDFGDHQADLLNCKDSIISANVKEFWDGPEEVS KRQ KNSGETVVLKLDWPSGEDEFKTMMPARYEDLLKSLPLEYCNF EGFN LASHLPGFVFPDLGPRLCSAYGVVAAKDHIGTITNLHI RVS DVN I LVYVGIKNGILSKAGILKKFEEDLDDILRKRK L DSSEIPGALWHIYAGKDVOKIRBELQKISKBOGLEVLPEHDFIR DQSWYVNNKLRQLLEBYGVRTWTLIQPLGDAI VLPAGALHQVQ

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			NPHSCIQVTEDFVSPEHLVESPFLTQELRLKREINYYDDKLQVK NILYHAVKEMVRALKIHEDEVDMEEN
6890	3	667	THACGMWIPLYLHRLVVKHTAETCNPPCGAKDSLIFGATTCF TGFLGVDTGAGATRWCRKLTQADPLVCAVGLGSAIFICLIFV AAKSSIVGAYICIFVGETLLFSNWAITADILMYVVIPTRRATAV ALQSFTSHLLGDAGSPYLIGFISDLIRQSTKDSPLWEFLSLGYA LMLCPFVVVLGGMFPLATLAFVSDRARAEEQQVNQLAMPASVK V
6891	1980	1262	LRHQELLSKELKLLRGITTESIIHIGLAAGKEQFMQDASNVQ LLLKTQSHLYNMEDNNPEVRQAAAYGLGVMAQPGDDYRSLCSE AVPLLVKVIKRAHSEKTKNVIATENCISAIGKILKPKPNCVND EVLPHWLSWLPHEKKEAIQTLSEFLCDLIESNHPVVIQPNNSN LPKIIISIIAEGKINETINYEDPCAKRLANVVRVQVTSSEDLWLEC VSLDDEQQRALQELLNFA
6892	3	876	RSVAAASGPGAWGTDHYCLELRRKRDYEGYLCSSLLPAESRSSV FALRAFNVELAQVKDSVSEKTIGLMRMQFWKKTVEDIYCDNPPH QPVAIELWKAVKRHNITKRWLMKIVDEREKNLDDKAYRNKELE NYAENTQSSLLYLTLLEILQIKDLHADHAASHIGKAQGIIVTCLRA TPYHSSRRKVFLPMDCIMLHGVSQEDFLRRNQDKNVRDVIYDIA SQAHLHLKHARSFHKTVPVKAPFAFLQTVSLEDPLKKIQRVDFD IFHPSLQOKNTLLPLLYLIQSWRKTY
6893	1	842	DGERKMSVVERTFSEINKAEEQYSLCOELCSELAQDLQKRLKG RTVTIKLKNVNFVKTRASTVSSVSTABEIFAIAKELLKTEID ADFPPLRLRLMGVRISSFPNEEDRKHQQRSTIGFLQAGNQALS ATECTLEKTDKDKPVKPLEMSHKKSFFDKKRSERKNSHQDTFKC EAVNKQSFQTSQPFQVLKKKKMNENLEISENSDDCQILTCPVCFR AQGCISLEALNKHVDECLDGPSTISENFKMFSCSHVSATKVNKKE NVFASSLCBKQDYEAH
6894	1742	1463	TTLCKPLVPREHGFYETLPAEMRKFTPOYKKGKSQLLEGLPHWRG DVRDRGHGRWPQPSLEPSLPPTLCFPLSSSFSSSWPSAQHLTPS VFNPW
6895	2379	478	VTVRELCDLSPALTIMRTVLDLIVEDLQSTSEDEKQYTSOT TRLALLYLALASHKACKLAHLHLNGTIKGDERYABIPQDLAL VRSPGDSVIRQQCQVEYVTSILQSLCDQDIALILPSSSEGSISEL EQLSNLPLNKLMTSICDCLLATLANSESSYNCLLTCVRTMMFL AEHDYGLPHLKSSLRKNSSALHSLKRVVSTFSDTGELASSFL EFMRQILNSDTIGCCGDDNGLMEVEGAHTSRMTSINAARKQLL QSKESPENLFLLEKLVLHESKDDDNLDLSLDSVVGLKQMLSE SGDPLPLSDQDVEPVLAPESLQNLFNNTAYVLADVMDQLKS MWFTPFQAEIDTDLVLKVDLIELSEKCCSDFDLHSELESL SEPPSPGRRTKTKGFKLGKHKHETFITSSGKSEYIEPAKRAHV PPPRGRGRGGFGQIRPHDIFRQRKQNTSRPPSMHVDDFVAES KEVVPQDGIPPPKRPLKVSQKISSRGGFSGNRGGRGAFHSQNR FTPPASKGNYSRREGTRGSSWSAONTPRGNYNESRGGQSNFNRG PLPPLRPLSSTGYRPSRDRASRGGRGLGPSWASANSQSGGSRG KPVSGSGRGRHVSFTR
6896	1	555	GNIVIQKKKYNQHIIPLENVTIDSIDEGDLRNGWLIKPTTKS FAVYAATATEKSEWMHINKCVTDLLSKSGKTPSNEHAHVVPD SEATVCMRCQAKFTPVNRHHCRKCGFVVCGPCSEKRPILLPSQ SSKPVRICDFCYDLLSAGDMATCQPARSDSYSQSLKSPINDMSD DDDDDDSSD
6897	3	920	GDGLMHEVVNGLMERPDWETAIQKPLCSLPAGSGNALAASLNHY AGYEQVTNEDLLTNCTLLCRLLSPMNLISLHTASGLRLPSVL SLAWGFADVDLESEKYRRIEMERFTLTGTLRLAALRTYRGRIA YLPVGRVGSKTASPVVVQGGPVD AHLVPLEEPVPSHWTVPVDE DFVLVLALLHSHLGSEMFAPMGRCAAGVMHLFYVRAGYSRAML

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			LRLFLAMERGRHMEYECPLYVYVFAFRLEPKDGRGVFAVDGE LMVSEAVQGVHPNYFWMVSGCEPPPSWKPOQMPPPEPL
6898	919	346	QKTVTAVASLLKGRQGIYTENERRMGAVIKIRPFKIMLVLTICW LSNIINESLLFYLEMQTDINGGSLKPVRTAAKTWFMIGILNPA QGFLLSLAFYGVGTGCSLGFQSPRKEIQWESLTTSAEGAHPSP MPHENPASGVKVSQVGGQTSDEALSMLESGSDASTIBHTASESC NNNEGDPALPTHDDL
6899	120	827	MKVRKNNDAYLLDKNKINMDCTISCFFKMLTLMFSGHSLLSL LEHGREYTFSLPCAYARSILTPWVLEGGKVSVCNCAKTGYSASI TFHTKPFYGGKLRVTAEVKHNIITNVVCRVQGEWNSVLEFTYS NGETKYVDLTCLAVTKKVRPLEKQDPFESRRLWKNVVDSLRSE EIDKATEHKHTLEERQRTERHRTETGTPWKTYFKKEGSGWVY HKPLWKIIPPTQAE
6900	3	451	TEVLGSKGIHELRSSTSLHHALESASLLTMFWRAALPSTHIP VLPGKVGESTERELLELRKVSQOEQLLQSTTEHLKMANQKES MEQFIVSQLTRTHDVLKARTNLKVRKLLHQSEAPSLSPTHHP LADLVGDSWPAIRFOEK
6901	1	201	DNNMVQRLETFDKMTLQQQSTLEQMAWLDNVMQALKPYEGRP SPPKAARQFLKNSFYRYHLGPS
6902	2	267	GAPPPFPSPQPPQPAAPSSPHSDLTNPSSALEGQAQGA SDMPBPSLDLLPELTNPDELLSYLDPDLPNSNMDLLSLFENN
6903	1	149	RINOVYRQGTGIIHLVIDQMVNQFQDESCFLFSTVKAESSDGI HILK
6904	464	2092	MEASLPVSLSCVLACGDVEGKFDILFNVRVQAIQKKSCNPDLILC VGNFFGSTQDAEWEEYKTIKKAPIQTYVLGANNQETVKYFQDA DGCELAENITYLGRKGIFTGSSGLQIVYLSGTRESINEPVGYSF SPKDVSSLRMLCTTSQFKGVDILLTSPWPKCVGNFGNSSGEVD TKKCGSALVSSLATGLKPRYHFAALEKTYERLFPYRNHIIQEN AQHATRFIALANVGNPEKKKYLYAFSIVPMKIMDAELVKQPPD VTENPYRKSGQBASIGKQILAPVEESACQFFDLNEKQGRKRSS TGRDSKSSPHKQPRKPPQPGPCWCLASPEVEKHLVVNIGTH CYLALAKGLSDDHVLILPIGHYQSVVELSABVVEVEVKYKATL RRFFKSRGKWCVVFFERNYKSHHLQLQVIVPVTSCSTTDDIKDAF ITQAQEQQIELLEIPEHSDIKQIAQPGAAYFYVELDTGERLFHR IKKNFPLQGREVLASEAILNVDPKSDWRQCQISKDEETLARR FRKDFEYDFTLDD
6905	1	226	VSKTGRAETITSHYLFALGVYRTLYLFNNIWRVHFEGFFDLIAI VAGLVQTVLYCDEFFLYITKVLKGGKLSLPA
6906	3	611	SYDDHNGHIDFITASNLRKMYSLPADRFKTRIAKTIIPAI ATTTATVSGLVALEMIKVTGGYPFRAYKNWFLNLAIPIVVFTET TEVRKTKIRNGISFTIWRMTVHGKEDFTLLDFINAVKERYGIE PTMVVQGVIMLYVPVMPGHAKRLKLTMHKLKVPTEKKYVOLT VSPAPDIDGEDLPGPVRYFVSHDT
6907	2	2228	LRGVVWAAGAFRFSSGEBSTSHLMSRRSQRLLTRYSGGDDGS SSSGSSVAGSQSTLFDKSPFLTLKRKSSNMKRLSPAPQLGPSS DAHTSYSESLSVHESWFPFRSSLEELHGDANWGEDLRVRRRRT GGSESSRASGLVGRKATEDFLGSSSGYSSDDYVGYSDVDQSS SSRLRSVSRAGSLLMMVATSPGRFLRYLWVWAGTTWYRLITAA SLLDVFLVLTFRFSSSLKTFWFLPLLLLTCLTYGAWYFYPYGLQ TFHPALVSWAAKDSRRADGWEARDSSPHQAEQVMSRVHSL ERRLEALAAEFSSNWQKAMRLRLRLRQGAPQGGGGGLSHED TLALLEGLVSRREALKEDFRRETAARIQEELSALRAEHQQDSE DLFKKIVRASQSEARIQQLKSEWQSMQESQESSVKELRLLE DQLAGLQQELALALQSSVABEVGLLPQQIQAVRDDVESQFPA WISQFLARGGGGRVGLLQREEMQAQLRELESKILTHVAEMQGKS

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			AREAAASLSLTQKEGVIGVTEQVHHIVKQALQRYSEDRIGLA DYALESGGASVISTRSETYETKTALLSLFGIPLWYHSQSPRVI LQPDVHPCNCWAFQGPQGFPAVRLSARIRPTAVTLEHVPKALSP NSTISSAPKDFAIQGFDEDLQEGTLLGKFTYDQDGEPIQTFPH QAPTMATVQVVELRLILTNWGHPEYTCIYRFRVHGEPAH
6908	3	780	QVPSAAWLMVAVCGLSRLGLSRLGLQGCFAARLLYPRFQSRG PQGVEDGDRPQSSKTPRIPIKITYKTGDKGFSSTFTGRRRPKDD QVFEAVGTDELSSAIGFALELVTEKGTFAELQKIQCTLQDV GSALATPCSSAREAHLKYTTFKAGPILELBQWIDKYTSQLPPLT AFILPSGGKISSALHFCRAVCRRAERRVPLVQMGETDANVAKF LWRLSDYLFTLARYAAMKEGNQEKIYKNDPSAESEGL
6909	3	409	GRLLAVGTDLYGQRSSAPQELLVQDATPVSNLLPEKAFSDIP SPYLRTGIKMMQAVRQAFQDQDDRTWDGRPLTMAATFDDCLYA LCVVDITIKRSSQTGEWQNTAIMTEPELSPAYLISRAMRRSRMS LYC
6910	1	1068	LVPVVVIDSYYYGKLVIAPLNIVLYNIFTPHCPDLYGTEPNWYF LINGFLNENFALALLVLPLTSLMEYLLQRFHVQNLGHPYWL LAPMYIWFPIIPPIQPHKEERFLFPVYPLICLGAVALSALQHSF LYPQKCYHFVPQRYRLEHYTTSNNLALGTVFLPGLLSFSRSVA LFRGYHGLDLYPEFYRIATDPTIHTVPEGRPVNVCVGKEWYRF PSSFLPDNWLQFIPSEPRGQLPKFPABGFLATRIPTDMNDQ NLEEPSRYIDISKCHYLVDLDTMRETREPKYSSNKEWISLAY RPFLLDASRSSKLLRAFVYVPLSDQYTVVNYTILKPRKAKQIRK KSGG
6911	1184	966	GEDAEEMETGNVANLISIPGSSBFSGLLRKSPGGREEEEGEESG PEAAEPGQICCDKPVLRDMNFWSTAI VAF
6912	1	844	AMKPVETHSFQMLFTILSTGSALKAQSYEDAYRCIKSSILGSI SGGTDIISCFMGHNEFLPVYKGEIQARNIGMAVEAWNEEGKAVW GESGELVCTKPIPCQPTHFWDENGNYKRYKAYPSKFPGIWAHGD YCRINPKTGGIVMLGRSDGTINPNGVRFGSSEIYNTIVESFEVE DSLCPVQYNYKREERVILFLKMASGHAFQPDLVKRIIRDAIRMOL SARHVPSLILETKGIPYTLNGKRVAVKQI IAGKAVEQGGAFS NPETLDLYRDIPELQGF
6913	1643	1558	KKSHEESHKEELSYGAQASLPLPCSDPR
6914	1251	615	ELAAECKSAGYPGTLIPYRCILSNEEDILSMFSAIRSQHSQVDI CINNAGLARPDYLLSGSTSGWKDMFNVNVLALSICTREAYQSMK ERNVDDGHIININSMGSHRVLPVSVTHFYSATKYAVTALTEGLR QELRBAQTHIRATCISPGVVETQFAPKLHDKDPEKAAATYEQMK CLKPEDVAEAVIYVLSTPAHIQIGDIQMRPTEQVT
6915	254	652	GRSLSFKTFLIWVLISYQGGILMYGALVLFSEFVHVVAISFT ALILTELLMVALTVRTWHNLMVVAEFLSLGCVSSLAFLNEYFD VAFITTVTFELWKVSAITVVSCLPLYVLKYLRRKLSPPSYCKLAS
6916	254	652	GRSLSFKTFLIWVLISYQGGILMYGALVLFSEFVHVVAISFT ALILTELLMVALTVRTWHNLMVVAEFLSLGCVSSLAFLNEYFD VAFITTVTFELWKVSAITVVSCLPLYVLKYLRRKLSPPSYCKLAS
6917	254	652	GRSLSFKTFLIWVLISYQGGILMYGALVLFSEFVHVVAISFT ALILTELLMVALTVRTWHNLMVVAEFLSLGCVSSLAFLNEYFD VAFITTVTFELWKVSAITVVSCLPLYVLKYLRRKLSPPSYCKLAS
6918	28	921	PEAGTRSWREPDPEDLRRFLLSAACRSFPQWLPGGGGQVSSCS DTDVPYLLAVKSEPGRFAERQAVRETWGSAPGIRLLFLLGSP VGRAGPDLDLVLAVNESRRYSDDLWDPLDVPPNQTLKDLLLAW LGRHCPTVSFVLRAQDDAFVHTFALLAHLRALPPASARSYLGE VFTQAMPLRKPGGPFYVPSFFEGGYPAYASGGGYVIAGRLAPW LLRAAARVAPFFFDVYTGLCIRALGLVPOAHFGFLTAWPADRT ADHCAFRNLLVRLPGQASIRLWKQLQDPRLQC

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6919	850	41	QGRRELSGSVFCFFIQQEPKEMLTLSHYHRRVRSQGGQQLQQLQA ELDKLHKEVSTVRAANSERVAKLVFQRLNEDFVRKPDYALSSVG ASIDLQKTSHDYADRNTAYFWNRPSFWNYARPPPTVILEPHVFP NCWAFEGDQGVVQLPGRVQLSDITLQHPPPSVEHTGGANSAP RDFAVFFLLSPFTHQGLQVYDETEVSLGKFTFDVEKSEIQTFHL QNDPPAAPPKVKIQILSNWGHPRFTCLYRVRAHGVRTSEGABGS AQGPH
6920	1418	591	EAQGSPSKVHLTLKKKK
6921	2	1711	MNATRSEEQFHVINHAEQTLRKMENYLKKEQLCDVLLIAGHLRI PAHRLVLSAVSDYFAAMFTNDVLEAKQEEVRMEGVDPNALNSLV QYAYTGLVLKEDTIESLLAAACLLQLTQVIDVCSNPLIKQLHP SNCLGIRSPGDAQGCTELLNVAKYTMHEHFIEVIKNOEPLLLLEA NEISKLLCSDDDINVPDEETIFHALMQWVGHVDQNRQGBLMLLS YIRLPILPPQLLADLETSSMETGDLECCQLLMEAMKYHLLPERR SMMQSPRTKPRKSTVGALYAVGGMDAMKGTTFIEKYDLRTNSWL HIGTMNGRRLQFGVAVIDNKLYVVGGRDGLKTLNTVRCFNPVVGK IWTVMPPMSTHRLGLGVATLEGPMYAVGGHDCWSYLNNTVERWDP EGROWNYVASMSTPRSTVGVALNNKLYAIGGRDSSCLKSMEY FDPHTNKLWLCAPMSKRRGGVGVATYNGFLYVVGHDAPASNHC SRLSDCVRRYDPKGDSTVAPLSVPRDAVAVCPGLDKLYVVG YDGHYTLNTVESYDAQRNEWKEVPVFNIGRAGACVVVKLP
6922	1075	369	LTPFAGIRHEVRDRERERERERERERERERERERERERERER GLPPAMQKVMYKGLAPEDKTLREIKVTSKAKIMGGSTINDVLA VNTPKDAAQDQAKAENKKEPLCRQKQHRKVLDKGKPBDMVPSV KGAQERLPTVPLSGMYNKSCKVRLTFKLEQDQLWIGTKERTK LPMGSIKNVSEPIEGHEDYHMAFQLGPTBASYYNVVWVPTQY VDAIKDTVLGKWYF
6923	2469	1660	LGLFCILPIDTLCAVLERDTLSIRESRLFGAVVRNAAECQRQ LPVTFGNKQKVLGKALSILIRFPLMTIEBFAAGPAQSGILSDREV VNLFLHFTVNPKEPRVEYIDREPRCLRGKECCINRFQQRVSRWGY SGTSDRIRPTVNRISIVGFLYGSIHGPTDYQVNIQIIIEYEKK QTLGQNDTGFSCDGTANTFRVMFKEPIBILPNVCTACATLKGP DSHYGTGLKLVVHETPAASKTVFFPSSPGNNNGTSIEDGQIP EIIFFT
6924	2210	1235	PEERVICFVHYLTAFHEGRKGALAKKPYNPITIGFTFHCSWEVP KDRVKPKRTASRSPASCHEHEMADDPSSKSYKLRPVARQVSHHP ISCFYCRCEERLCVNTHVWTKSKFMGMSVGVSMIGEVLRLE HGEYVFTLPSAYARSILTI PWVGLGKVSINCAKTGYSATVIF HTKPFYGGKVHRVTARVKNPNTIVCKAHGEWNGTLEPTYNNG ETKVIDTTLFVYPKIRPLEKQGPMEARNLWREVTYRLRGDI DAATEQKRHLEBKQVRERKRENLRTPWPKPYFIQEGDGSILQ SPLESTLMGLEVQSFPV
6925	2	1653	RGAAGAAMEPDSVIEDKTIELMCSVPRSLWLGCANLVESMCAL SCLQSMPSVRCLQISNGTSSVIVSRKRPSEGNVQKEKOLCIKYF DQWSESDQVEFVEHLISRMCHYQGHINSYLPMLQDRDITLALP EQGLDHAENILSYLDARSLCAELVCKEWRQVISEGMLWKKLI ERMVRTDPLWKLSERRGWDQYLFKNRPTDGPNSFYRSIYPKI IQDIETIESNWRCSRHNLRQIQCRSENSKGVYCLQYDDEKIIISG LRDNSIKINDKTSLECLKVLTGHTGSVLCQYDERVITVGTSSDS TVRVVDVNTGEVLNLTLLHNEAVLHLRFSNGLMVTCSKDRSIAV WDMASATDITLRRVLVGHRAAVNVVDFDDKYIVSASGDRITIKW STSTCEFFVRLNGHKGRIACLQYRDLVVGSSDNTIRLWDIEC GACLRVLEGEHRLVRCIRFDNKRIVSGAYDGKIKVWDLQAALDP RAPASTLCRLTLVHSGRVFRLQDFEQIISSSHDTTILWDFL NVPPSAQNETRSPSRTYTYISR
6926	1	733	SGRVAMDGLGLQFFEQGFAGPPLPPHMGGHYRDCQSLGAPPL

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			DGYPLPTPDTSPLDGVDPDAFFAAPMPGDCPAAGTYSYAQVSD YAGPPEPPAGPMHPRGPGKAGPSIPGGLAPPALHVVYAGMGS PGAGGGRGFQMOPQHQQHQQHQQHPPGPGQPTPPPEALPCRDGT DPSQPAELLGEVDRTFEQYVLFVCKPEMGLPYQGHDSGVNLPD SHGAISSVVSDASSAVVYCNYPDV
6927	2	1484	LTLCGDIQLMLAQNANNRAAHLEEFHYQTKEDQETILSLHRESS CQGFATWATDLSTDLSQLSVCKCYEAANEILQFRDLKSNPKH YVQVLKRMGNIRNKIGVFFYMNQAAALQSERIVSKSVSAEQQLW KKSFSCEFEGIHNFESIEDATNAALLCNTGRLMRICQAHCAG GDELKREFSPBEGLYNKAIDYLYKALRSIGTRDIHPAVWDSVN WELSTTYFTMATLQODYAPLSRKAQEQIEKEVSEAMKSLKYCD VDSVSARQPLCQYRAATIHRLASMYHSLRNQVGDHILRKQHR VLADLHYSKAAKLFQLLKADAPCELLRVQLERVAFAEFQMTSQNS NVGKLKTLGALDIMVTEHAFQLIQKELIEFGQPKSGDAAA ADASPSLNREVMKLLSIFESRLSFLLLQSIKLLSSTKKKTSNN TRDDTILKTNKHIYSQLLRATANKTATLLERINVIHLLGQLAA GSAASSNAVQ
6928	1086	777	EAIDLINLLQVKMRKRYSDKTLSHPNLQDYQTWLDLRELECK IGERYITHESDDLWEKYAGEQGLQYPHILNPSASHSDTPETE ETEMKALGERVSIL
6929	1749	607	RDQGRYDRDRSPAREPGDVSA RTSGGGGGRSATTAMPFPVNG NLHQDPQDLRHNGNVVAGRPSCSRGPRRAIQKQPPAGRRSG RGPAGGLCLQPPDGGTCVPEEPVPPMDWEALEKHLAGLQFRE QEVNRQGGARTNSTSAQKNERESIRQLALGSFFDDGPGIYTSC SKSGKPSLSRLQSGMNLQICFVNDSGSDKSDADDSKTETSLD TPLSPMSKQSSSYSDRDTTEESSESLDDMDLTRQKQLQAEAKM ALAMAKPMAMQVEVEKQNRKSPVADLLPHMPHISECLMKRSL KPTDLRDMTIGQLQVIVNDLHSQTESLNEELVQLLLIRDELHTE QDAMLVDIEDLTHAESQQKHMMAKMPAK
6930	131	545	PKDTANVFVSLFQMRNFRHYFIEPSQLKLFYDVTWIVTQVAI SYTVVPVLLSIKPSLTFYSSWYICLHILGILVLLLPVKKTQR RKNTHENIQLSQSKKFDGENSLGQNSFSTNNVCNQNLASR HSSLKQ
6931	2	659	PVERLEPNRPACLLVASGAAGVSAQSPFHCFMATAFNQLQVAT PGGKAMEPVDVETESNARWQDFRLKAYASPAKLESIDGARYHAL LIPSCPGALTDLASSGSLARILQHFSSESKEICAVGHGVAALCC ATNEDRSWVFDYSYSLTGPSVCELVRAFGFARLPLVVEDFVKDSG ACFSASRPDAVHVLDRLHVTGQNASTVPAVQNLLFLCGSRK
6932	2	1131	FVDSFGQGEQAEIEEGGIQMNRMRAHSPAGASVESSSPGPKK SDMCBGRSLAAGHPGYISHDKETSIKYVSHQHPSPQLFSIVR QACVRLSCEVCPGREGPIFFGDEQHGPFVFSHTFFIKDSLARGF QRWYSIITIMMDRIYLINSWPFLGKVRGIIIDELQKALKVFEA EQFGCPQRAQRMNTAFTPFILHQNGNAARSLTSLTSDNLNACL HTSFAWLKACGSRLTEKLEGAFTEDTLVQMEKLADLEESSES WDNSEAREEEKAPVLPSTBGRRLTQGPARESSSLSGCGSWQPRK LPVFKSLRHMRQVGGRTAHHLRRRANHGLCLPTRLASGPSTL KTLQEVTDLSLLGGWMAQGVGGII
6933	1431	890	SLNLHCTLPFPHPQYPAGYPSDKGKKPKQSKQPSGTTKRPI SDDDCPSASKVYKASDSAAIEAFQLTPOQQHLIREDCQNKILW DEVLSHLVEGPNFLKKLEQSFMCVCCQELVYQVTTTECFHNVCK DCLQRSFKAQVFSCPACRHDLGQNYIMIPNEILQTLLEDLPFPGY SKGR
6934	3030	2588	DRHSQCGGIRVALARVSSVKLISKAKIRTVMKTFIIVLAFIV CWTFFPFPVQMWSDANAPKEASAPIVMILLASINSCCNPWIM LFTGHLFHELVRPLCCSASYLKGRRLGETSASKKSNSSSFVLS HRSSSQSCSQFSTA

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6935	886	543	NSALYVAGGNDGTSCINSVBRYSPKAGAWESVAPMNIIRSTHDL VAMDGWLYAVGENDGSSSLNSIEKYNPRTNKGVAASCMFTRRSS VGVAVLELINFPPSSPTLSVSSTSL
6936	1347	567	RSHRRQFLSRALLEFPFGKSHPPPHRLFRKSLNVGLHYSHIFFLT TCLHFLRKRLQKGEVGLSVETSKPQVPGGLSRKKVPQEPWATV MEKRLQEAQLYKEEGNQRYREGKYRDAVSRYHRALLQLRGLDPS LPSPPLNLGPQPALTPQENILHTTQTDCCYNLAACLLQMEPV NYERVREYSQKVLBRQPDNAKALYRAGVAFPHLQDYDQARHYLL AAVNROPKDANVRRYLQLTQSELSSYHRKEKQLYLGMFG
6937	1	727	AVEFRCCPGRPDPACFARGWRLDRVYGTCCDQACRFTGDCCFDY DRACPARPCFVGEWSPWSGCADQCKPTTRVRRRSVQQEPQNGGA PCPPLERAGCLEYSTPQQQDCGHTYVPAPITTSAPNKERTROA TSPHWSHTTSDAGYCMFETESLTPHCALENRPLTRNMQYLREG YTVCDQCQPPAMNSVSLRCSGDGLSDGNQTLHWQAIGNPRCQG TWKKVRRVDQCSCPAPHVSFIFI
6938	3	719	NSRKLELAERVDTDFMQLKKRRQSSEKENDSGTLDTVGAVVVDH EGNVAAAVSSGGLALKHPRVQQAALYGCCHAENTGAHNPYST AVSTSGCGEHLVRTILARECSHALQAEDAHQALLETMONKPISS PFLASEDGVLCGVIVLRSCSAEPDSSQNKQTLLEFLMSHTT RSMCVGYMSAQDGKAKTHISRLPPGAVAGQSVAIEGGVCRIGEP SELTILQAECEASQRHFRT
6939	3	810	KVTAPRRRPORYSSGHGSDNSSLVSGLEFPAMGRTALFHHSGSS GYESLRDRSEATGSASSAPDSMSSEGAASPGARTSLKSPKKRA TGLQRRRLIPAPLPDITLGRKPSLPGQWDLPPPLAGSLKEPF RIKVYRIDDDVERLQRPPTPREAPTOGLACVSTRILAEERROOR LREVQAKHKHLCEBLAETQGRMLLEPGRWLEQFEVDPELEPESA EYLAALBRATAALEQCVNLCKAHVMVTCFDISVAASAAIPGPQ EVDV
6940	1188	496	GKMAAQLRHRRCATPPRGDFCGGTERAIDQASFTTSMENDTQ VVGSSPLPGFAGLGAEEPAAGPQLPSWLQPERCAVFCQAQCHAV LADSVHLANDLSRSLGAVVFSRVTNVVLRAFFLVGIEGSLKGS TYNLLFCGSCGIPVGFHLYSTHAALALRGHFCLSSDKMVCYLL KTKAIVNASEMDIQNVPLSEKIALBLKEKIVLTHNRLKSLMKILS EVTTPDQSKPEN
6941	1	713	SLSRADSDFBGPHTCGHVLNVIIGSNVLALAEARQARALGYQA VVLAAAMQGDVKSMAQFYGLLAHVARTLTPSMAGASVERDAQ HELAELQIPDLQLEBALETMAWGRGPVCLLAGGEPTVQLQSSG RGGRNQELALRVGAELRRNPLGPIIDVLFSLGGTDGQDGPTEAAG AWVTPPLASQAAAEGLDIATFLAHNDSHTFCCCLQGGAHLLHTG MTGTNVMIDTHLLFLRPR
6942	1	246	GDYVERYDPKTDWTMGAPLSMPTNAVGGCLIGDRLYADGGYDG QTYLNTMESYDPQTNBWTQMASLNIQRAGACVVVIKQP
6943	1	739	PMATGDGAKTLAIHVKALTADSIKITWKATLPASSFRLSWRLRG HSPAGGSITETLVQGBKTEYLLTALEPKPTYIICMVTMETTNAY VADETTPVCAKAETADSYGPTTLNQBNAGPMASLPLAGIIGGA VALVFLFLVLGAICWYVHQAGELLTRERAYNRGSRKKODYMESG TKKDNSILEIRCPGLQMLPINPYRAKEEYVHTIIPPSNGSSLCK ATHTIGYGTTRGYRDGGLPIDIDYSYT
6944	960	156	VANILINGVKYESBLTGSSERAEQPLSVGRLCSTICNMPKALRT LCVNHFLGWLSFEGMLLFYTDPMGEVVFQGDPAKAPHTSEAYQKY NSGVTMGCWGMCIYAFSAAFYSAILEKLEEFLSVRTLYFIAYLA EGLGTGLATLSENLYVVLISLCITYGILFSTLCTLPYSLLCDYQ SKKPAAGSSADCTRRMGVDISLSCQYPLAQILVSLVLGPLTSA VGSANGVMYFSSLVSFLGCLYSSLFVIVETPPSDAADEHRPPLL LNV

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6945	2067	179	EGEDRGLPRTMGAALGTGTRLAPWPGRACGALPRWTPTAPAQGC HSKPGPARPVPLKKRGYDVTNRPHLNKGMATFLKERLQLGIHGL IPPCLFSQDVQLLRIMRYBYRQSQDLDKYIILMTLQDRNEKLFY RVLTSDVEKPMPIVYTPTVGLACQHYGLTFRPRGLFITIHDKG HLATMLNSWPEDNIKAVVVTDERILGLGLDLCYCGMGPVQKLA LYTACGCVNPQQCLFVLLDVGTTNNEELLRDPLYIGLKHQRVHGK AYDDLLEDFMQAVTDKFGINCLIQFEDPANANAPRLNKNYRKY CMFNDDIQGTASVAVAGILAALRITKNKLSNHVFGFGAGEAM G\IAHLVMALE\KRGVPA\KATRKIW\MVDF\KGLIVQGRDH LNHEKEMFAQD\HPEVNSLEEVRLVKPTAIGVAAIAEA\FTB QILRDMASPHERP\IIFALSNTSKACCTA\EKCYRVTEGPRGF FAS\GSPF*GVLIWEMGKTFIPGGRGNA*RVPRGWLGVHSPG GDPGHP\DEIFLPSRAKLQEVSEQLHSCQRLYP\PLST\IR NVFLRIAIVFD*GYKHNLV\SYTPEPKD\KRAFCKIPGSYTPD YDSFYT/VDSYIWAQKAMNVQTV
6946	133	2551	SCYSGITVAFGDPGCPGVAHLLAPSMASDTPESLMALCTDFCLR NLDTGLGYLLDKETLRHPDIFLPSXI\CDRLVNEYVELVNAAC NF\EPHE\SPFNPLFRDPKQPASRRRIHL\RED\LVQD\QD\LE AIRKQDL\VEL\VLTN\CEKLSAKSLQTLRSFSHTLGVP*AFPG C\TNILLRKENPGGL/CEDEYLFNPTCQVLVKDPTFEGFSRLR P\LLGRMIDWVPVES\LLRPLNSLAALDLSGIQTSDA\PLTQ WKDSL\VSLVL\VNMLSDDIIR\VTIQLHKLRLHLDISDRDLS YYKFKLTREVLSEFVQKLGNLMSLDISG\HMLENCISISKIGR EAGQTSI\EPK\SSIIIPFGFBGGPLQF\LGVP*GIFCGRLLTH IPAYKVSQDKNEQVINAIEAYTEHRPEITSRAINLLPDIARIE RCNQLLRALKLVIITALKCHKYDRNIQVTGSAAALFYLTNSEYRSE QSVKLRQVIQVVLNGMESYQEVTVQRNCCLTLCNFSIPEELEF QYRRVNELLLSILNPTRODESIOQLAVHLNALVCQVNDHKEA VGKMGFVVITMLKTQKKLLDKTCQVMEFSW\SAWNITDETFD NCEMFLNFMGMKFLDCLNBFPEKQELHRNMLGLLGNVAVKEL RPQLMTSQFISVFSNLLESKADGIEVSYNACGVLSHIMFDGPEA NGWCEPQREVEERMMAAIQSWDINSRRNINYSFEPILRLLPQ GISPVSOHWATWALYNLVSVYPDKYCPLLIKEGGMPLLRDIKIM ATARQETKEMARKVIEHCNFKERNMDTSR
6947	2	1682	TSVSTIPGLASARPOSESNRCCPVWRRSPGRARGGLKMLNVP SQSFPAPRSQQRVASGGRSKVPLKQGRSLMDWIRLTKSGKDLTG LKGRLEIVTEEBLKKHNKDDCWICIRGFVYNVSPYMEYHPGGE DELMRAAGSDGTBLFDQVHRWVNYESMLKECLVGRMAIKPAVLK DYRBEKKVLNGLMPLKSQVTDTLAKEGPSYPSYDFQTDLSLVTI /EHIY*TEGYQFRLNNS*SSE*FLYSRNNY*GLLISYTYW/R*A MRFRKIFLCGL/CRSVGKIEIVLQKKENTSWDFLGHPLKNHNSL IPRKDTGLYRKQQLISKEDVTHDTRLFCIMLPPSTHLQVPIGQ HVYLKLPITGTETIVKPYTPVSGSLSEFKEPVLPNNKYIYFLIK IYPTGLPTPELDRLQIGDFVSVSSPEGNFKISKPQELDLFLIA AGTGFTPMVKILNYALTDIPSLRKVKLMFFNKTRDDIWRSQLE KLAPKDKRLDVEFVLSAPISEWNGKQGHISPAALLSEFLKRNLDK SKVLVCICGPVPFTEQGVRLHDLNFSKNEIHSFTA
6948	104	58	PDGAHSFPFDEYFTCSSLCLSCGVGCKKSMNHGKEGVPHAKSR CRYSHQYDNRVYTCACYERGEVSVVPKTSASTDSPWMOLAKY AWSGYVIECPNCGVYRSRQYWFQNDPVDTVVRTEIVHVPPT DGFLKONNNAQRLLDGMNFMAQSVSRLSGPTKAVTSHLTDQI APAYWRPNSQLSCNKCATSFKDNDTKHHCACGEGFCDCSSK TRPVPERGWGPAPVRVCDNCYER/TRPVSCYRGTSGR*RRRRT QETVE
6949	152	4656	GLRLCLSRPLTRFGDDSVGGSAMASGAGGVGGGGGKIRTRCH QGPIKPYQQGRQOQHGILSRVTESVKNIVPGWLQRYFNKNEDVC

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			<p>SCSTDTSEVPRWFENKEDHLVYADESSNITDGRITPEPAVSNT REPSTTSTAST\YPDVLTRVSLYRSHLNFMSLESPALHCPQSTS SAPPIGSSGFSLVKEIKOSTSQHDDDNISTTSGFSSRASDKDIT VSKNTSLPPLWSPEARSHSLSQHTATSSKCPAFNLSPAGTSLP SLGNSILKTSQLGDSPPFPGKTTYGCAAAVROSKLRNTPYQA PVRRQMKAKQLSAQSYGVTSSTARRILQSLKMSPLADAKRIP SIVSSPLNSPLDRSGIDITDPAKREKVDQYPPVQRLMTPKPV SIATNRSVVPKPSLTSPSGEFRKTNQRIKRCSTGYEKNMTPGQN REQRESGFSYPNFSPLPAANGLSSGVGGGGKMRERRHAFVASKP LEEEMEGFVLPKISLPITSSSLPTFNFSPEITTSPPSPINSS QALTINKVQMTSPSSSGSPMKFSSPIVKSTRANVLPSSIGCTP SVPVAKTALSGSSSTLEPIISSAHHVTTVNSTNCKKTPPEDC BGFPRPAEILKEGSSVLDILKSPGFASPKIDSVAAQPTATSPVVY TRPAISSFSSSGIGFGESLKAGSSWQCDTCLLQNKVTDNKCIC QAAKLSPRDTAKQTGIEPTNPKSGKTTLSASGTGFGDKFKFVIGT WDCDTCLVQNKPEAIKCVACKTPKPGTCVKRALTLTVVSESAET MTASSSSCTVTTGTLGFGDKFKRPIGSWECSVCCVSNNAEDNKC VSCMSEKPGSSVPTSSSSVTPVSLPSCGSLGLEKFKKPRGIWDC ELCLVQNKADSTKCLACTSAKPGTKSGFGFDTSSSSSSNSAASS SPKFGVSSSSSGPSQTLTSTGNFKPGDQGGFKIGVSSDSGYINP MSEGPF*FSKHIVGFKPGVSSSESKPEEVKDKSKNDNPKFGLSPGL SNEVFLTPPQPGVSNLQREKKRELKSKSCAGFRPGTGVINSTR VPANTIVTSENKSSFNLTETKSVSVAPLKQCTSEAKKEEMPA TRGGFSFGNVEFASLPSASVFLGRTEEKQOEBVTTSTSLVFGEG KLIMKEPKC\QPVFSGEFQRTKDESSKSTPSFSMTKPSSEKE SEQPAKATFAFGAQTNTTADQGAAPDLSYLNSSSSSTPAT AGGG\IFGSSSTSSNPPVATFVFGQSSNPGSSS\AFGNTAESST SQSLLESQDSKLATTSSTGTAVTPFVFGPGASNNTTTSGFGPG ATTTSSAGSSFVFGTGPASAPAFGANQTPFTGQSQGASQP NPPGFGSISSTALFPTGQAPPTFTGTVSSSQPPVFGQPSQ SARGSGTTPNSSSAFQFGSSTTNFNTNNSPSGVFTFGANSSPT AASAQPSGSGGFPFNQSPAFTVGSNGKNVFSSSGTSFSGRKIK TAVRRRK</p>
6950	2585	411	<p>PRPGSRSGLCRRAGERGAVRAGGLSRRTAR*IMDELHYQDTS DVPEQRDSKCKVKWTHEEDEQLRALVRQPGQDWFSLASHPNR TDQCCQYRWLRVLNPDVRCGPWTKBEDQKVI BLVKYGTQWTL LAKHLKGRIGRQCRERWHNLNPEVKKSCWTEEDRIICEAHKV LGNRWAEIAQMLPGRTDNAVKHNNSTIKRKVDGGLFSESKDC KPPVYLLLELEDKGLQSAQTEGQGSLLTNWPSVPPTIKEBEN SEBELAAATTSKEQEPIGTDLDVARTPELLEFPKREDQEGSPP ETSPLYKVVVEAANLLIPAVGSSISEALDIESDPDAWCDLSKF DLPEEPSAEDSINNSLVQLQASHQQQVLPQPQSA\LVPSVTRY RLDGHTISDLSRSSGELIPISPSTEVGSGIGTPPSVLKRQR RRVALSPVTENSTLSFLDSCNSLTPKSTPVKTLFPSPSQFLNF WNKQDTLELESPLSTTPVCSQKVVVTTPLHRDKTPLHQKHAAP VTPDQKYSMDNTPHTPTPFKNALRYGPLKPLPQTPHLEBDLKE VLRSEAGIELIETDDIRPEKQKRKPLRRSPIKVKRSLALDIV DRDMKLMSTLPKSLSLPTTAPSNSSSLTSGIKEDNSLLNQGF LQAKPEKAAVAQKPRSHFTTPAPMSSAWKTACGGTRDQLFMQB KARQLLGRKPSHTSRTLLS</p>
6951	1940	239	<p>AGPDDTMKRSQALVCQLLSFLLILALTEALAFATQEPSPRESL QVLPSTGTPPGTMVTAPHSSSTRHTSVVMLTNPDPGPPSQAAAPMA TPTPRAEGHPPT\TPSPPSLRQ*PPPILKAP/SSTGPAPAPAMAT TSSKPEGRPRGOAAPTILITKPPGATSRPTTAPPRITTRPPRP PGSSRKAGNSSRPVPPAPGHSRSKEGQRGRNPSSPTPLGQKRP LGKIFQIYKGNFTGSVEPEPSTLTPTPLWGYSSSPQQTVAAT</p>

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			TVPSNTSWAPTTSILGPAKDKPGLRRAQGGGSTFTSQGGTPDA TAASGAPVSP/ESCPSAFSAPPPR*PTGWQPQ*LLAYCYP\CT SRPLSTSSGVFTAAATGPTPAAFDTSVSAPSQGIPOGASTTPOAP THPSRVSESTISGAKEETVA\PS*PTGCPVLSQWYPPQQAIS STAWSPPGPGSLGQQGTSFPMWRGTNRSTEPSA*ARWISPG*S WPSACPSPP/LCPADGVLHEBEEDRQPGEQPEAYGNTHHPGT TFQQAC/RGAAPGBIPVPLKPLRLTQLSRPSRSPANGDYRDTGMVP C
6952	658	304	PESECEGEMTDRTYIHSQLEHLQSKYIGT\ATPTPPSCSG\CE PTPRLVILLHGPLRPSQLLRHCGE*EQSASPLQLDGDASALWT ASRQARGELRLCLTTAVRGTSPPSVSPVCQSS
6953	1512	349	NWCKTRALASGKHVPFGKQTNFNKS/VHCD*G**RRETTQDES FSPHFRGMGGVV\KLEKELENTEQPVGGNEG*EHEVTGNLNSD PLLELCQCPQLDQCSREQLIAHVYQHTAAVVSAXSYM\CPVC GRALSSPGSLGRHLLIHSQDRSNCAVCGARFTSHATFNSKLP EVLNMSLPTVHNEGSSAEGKDIAFSPVVPAGILLVCMNCAA YRKLLEAQTPSVRKVALRRQNEPLEVRLQRLERERTAKSRRDN ETPREVERRRMRDREAKRLQRMQETDEQRARRLQDRREAMRLR AIETPEKQARLIREREAKRLKRRLEKMDMLRAQFGQDPSAMA ALAAEMNFPQLPVSQVGLDQLLGMAFEEQNSSSLH
6954	819	1	PPPPFTIPSHPREAGT*AG*KRSGDSECSFPEVQ*A*TRAAQN *PQR*RWTEGNSPOASAVATPGQASPAAPRCTP*PSRRHRLP PGARPPAG*AAPATKPLWLAGPASAPQGAAPLSPAPPLIRTR *CAGAAARGRRRRDRSPRPTPGGCSWSRPTPPAVSASAQTPS DAG*AGGR*GQRQRPSTGR*PPGVGGAGSRHREGTIPGNPHPR AS*RAQWR*PGP/REWGL*EPQGBEMSCPGPGGAPPNQVSS VMQAMSTGI
6955	1968	782	PPGRRQVRAQVAGAPVGHNGTRARQVKTGRRRRARRTMPFLGD WRSPGWSWIKTEDGWRKRCSCSKLERENNHCNISHSIILNSD GEIFNNESEHYASKRRKKDHFRNDTNTQSFYREKWIYVHKESTK KRHGYCTLGEAFNRLDFSSAQTDIRFNYVVLQLQIAKSQSLT LSGVAQKNYFNILDKIVQKVLDDHNPRLIKDLLQDLSLTCIL /N*RSREVCISGKHQYLDLPIRNYRSLATTATGSSDD*ASE\NG LTLSDLPLHMLNLYRPSDQWDIITLGQVTEPLYMLSEDRQLW KKLCQYHFAKQPCRHLLISEKGHIWKLMYFALQKHYPABQY GDTLHFCRHCSILFWKDSGHPCTAADPDSCFTPVSPQHFIDLFK F
6956	8605	3839	QTSSTIFASPTSPVVLGEVLDQNSFDLNGSDAQREMETQSS DFPPSLTQAPDQSSSTIQLHPATSPAVSPTTSPAVSLVSPAAS PEISPEVCPAASTVVSFAVSVVSPASSAVLEAVSLEVPITASV TSPKASPVTSAAAFPTASPANKDVSSFLETTADVERITGEGIT ASGSGDVMRRIATPEEVRLPLQGWRRREVIRKKGSHRWQGETW YGPCCGRMKQFPEVIKYLNRNVHVSVRHEFSFSPRMPVGDFF BERDTPBGLQNVQLSAEIPSRIOAITGKRGPRNTEKARTKEV PKVKRGRGRPPKVKITELNKTDRPLKLEAQTLNEEDKAKI AKSKKMRQKVORGECCOTTIQQARNKRRQETKSLQKEAKKKS KAKKEKGTQKQELKEKVKRKKKVKMKKEEVTAKAPACKAD XTLATQRLRERQRQOMILEEMKPTEDMCLTDHQLPDPFSRVP GLTLPSGAFSDCLTIVEFLHSFGKVLGFDPAKDVPSLGLVQEG LCQGDLSGEVDLLVRLKAAALHDPGFPSYCQSLKILGEKVSEI PLTRDNVSEILRCFLMAYGVEPALCDRLRTOPFOAQPQQA LAFVHBLNGSTLIINEIDKTESMSSYRKNKWIVEGRRLRLKT VLAKRTGRSEVEMGPERCLGRRSSRIMEVTSMEBEHEEBSI AAVPGRRGRDGEVDATASSIPELERQIEKLSKRLFFRKKLLH SSQMLRAVSLGDRYRRRYNVLPLYLAGIFVGTBGNLVPBEVIK KETDSLKVAHASLNPALFPMKMLAGSNTTASSPARARGPRK

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			TKPGSMQPRHLKSPVRGQDSEQPOAQLQPEAQLHAPQPOPQLQ LQLQSHKGFLEQEGSPLSLGQSQHDLSSQSAFLSWLSQTQSHSSL LSSSVLTPDSSPGKLDPAQSPPEEPPEDEAESSPDQALWFNI SAQMPCNAAPTTPPAVSEDOPTSPQQLASSKPMNRPSAANPCS PVQFSSPTLAGLAPKRRAGDPGEMPSPTGLGQPKRRGRPPSKF FKQMEQRYLTQTATQFPVPEMCSGWNWIRDPEMLDAMLKALHPR GIREKALHKLHNKHRDPLQEVCLRPSADPIFEPRQLPAFQEGIM SWSPKERTYETDLAVLQNWVELEQRVIMSDLQIRGWTCPSPDST REDLAYCHLSDSQEDITWRGRGREGAPQRKTTNPLDLAVMRL AALEQNVERRYLREPLWPTHEVVEKALLSTPNGAPEGTTTTRIS YEITPRIRVWRQTLCRCSAAQVCLCLGQLERGIWEKSVNKVT CLVCRKGDNDDEFLLCDGCDRCCHYCHRPKMEAVPEGDFWCTV CLAQVEGEPTQKPGFPKRGQKRRKSGYSLNFSBGDGRKRRVLLR GRESAAGPRYSEBGLSPSKRRRLSMRHHSDLTFCBIILMEME SHDAAMPFLEPVNRLV3GYRRIIKNPMDFSTMRELLRGGYTS SEEFADALLVFDNCQTFNEDDSEVGKAGHIMRRFFE\SRWEEF YQKQGSQSVRQGRWGVTLWHLPPPTQTKTCHFLLMLPWVQTQV RYNPDF
6957	82	3514	HLIVAMPEPTKKEENEVPAPAPPPPEPSKEKEAGTTPAKDWTLV ETPPGEBQAKQNSQLSILFIRKPGGGTVKVGEDITFIAKVKA EDLSEKPTINGSRKWMDLASKAGHLQLKETFERHSRVYTFEMQ IIKADNFAGNYRCEVTYKDFDSCSFDLEVHSTGTTFNIDIR SAFKRSGEGQEDAGELDFSGLLKRRREVQKEEPQVDVWELLKN TKPSEYEKIAFOYESPTCSGMLKRLKRSIRBRKKSAAFAKILDP VYQVDKGGVRVVELADPKLEVKWNKNGQELRPSTKYIFEDTR CQSIILNIDNCQMTDDSEYVYTAGDEKCESTELLVREPPIMVTQL EDTDDYCGERVELECEVSEDDAQVQWPKNGEIIIVQTRYRIRV EGKKHILIIEGATKADAADYSVMTTGGQSSAKLSVDLKLPLILT PLTDQTVNLGKEICLKCEISENIPGKWTNGLPVQESDRLKVVH KGRHKLVIDHALTEDEGDYVFAPDAYNVILPAKVHVIDPPKII LDGLDADNTVTVIAGNKLRLIPIISGEPKPKAMNSRGDKAIMEG SGRIRTESYPDSTLVIDIAERDDSGVYHINLKNEAGEAHASIK VKVVDPPDPVPVAPTVTGVGDWNCIMNWEPPAYDGGSPILGYFIE RKKKQSSRMRLNFDLCKETTFEPKMIIEGVAYEVRIIPAVNA\I GISKPSMPSRPFVPLAVTSPPTLLTVDSVDTVTVMWRPDPHI GAAGLDGYVLEYCFEGSTSAKQSDENGEAAYDLPAEDWIVANKD LIDKTKFTITGLPTDAKIFVRVKAVNAAGASEPKYYSQPILVKE IIEPPKIHSKHLKQTYIRRVGDRVILVIPFGKPRPELTWKKD GABIDKNQINIRNSETDTIIFIRKAERSHSGKYDLQVKVDKFEF TASIDIRIIDRPGPPQIVKIEDVWGRNVALTWTPPKDDGNAAT GYTIQKADKKSMELRVIEHIEPVPHTELIGNEYFYFRVFSN MGLSEDAITMTKESAVIARDGKIYKNPVYEDFDFSEAPMFTQPL VNRLCHSGYMATLNCVSRGNPKPKITWMKNKVAIVDDPRYRMP NQGVCTLEIRKPSPYDGGTYCKKAVNDLSTVEIECKLEVKVIAQ
6958	274	1663	PRTSRVKTGSGQSSAMDFSVKVDIEKEVTCPICLELLTKPLSL DCGHSFCQACITAKIKESVILSRGESSCPVCQTRFQPGNLRPNR HLANIVERVKEVKMSPOEGQKRDVCEHHGKKLQIFCKEDGKVIC WVCBLSQEHQGHQTFRINEVVKBCQKQLQVALQRLIKENQEAR LEDDIRQERTAWKNYIQIERQKILKGFNEMRVILDNBQREBQK LEEGEVNVLNDLAAATDQLVQQRQDASTLISDLQRLRGSSVEM LQDVIVMKRSESWTLKKPKSVSKKLKSVFRVPDLSGMLQVLKE LTDVQYYWVDVMLNPGSATSNAISVDQRQVKTVRTCTFKNSNP CDFSAFGVFGCQYFSSGKYWEVDVSGKIANILGVHSHKISSLNK RKSSGFAFDPSVNSKVYSRYRPQYGYWVIGLQNTCEYNAFEDS SSSDPKVLTLMFAV\LPVVVLGFS
6959	1	1469	SLVHVVEFGRIEDFPYLFQLTHTCQQRICSVTQAGVQWCDHSS

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			LQPQTGGLNQSSSHLSLLSSRDYRMLSSFNENFWQDRFWLPPNVT WTELEDDRDRGVYPHPQDLAALPLALVLLAMRLAFERFIFGLPLPS RWLGVRDQTRRQVKPNATLEKHFLETEGHRPKPEPQLSLLAAQCGGL TLQQTQRWFRRRRNQDRPQLTKKFCASWRFLFYLLSSFVCGLSV LYHESWLWAPVMCWDYRPNQLTSLCPAADSEA\SLYWWYLLRLG FYLSSLIRLPFDVVRKKGSSSIKPRPHYDPPSTA\DFKEQVH HFVAVILMTFSYSANLLRIGSLVLLHSDSYLLLEACKMVTNYMQ YQQVCDALFLIPSFVFFYTRVLVFPQTILYTTYYSISNRGPF GYYPFNGLLMLQLLHVFWSCILRLMYSFMKKGQMEKDIRSDV EESDSSERAAAQEPQLQKNGTAGGPRPAPTGDGPRSRVAGRLTN RHHTAT
6960	387	2068	AKWARRKEMQEF\TRSF\RGPRDLSTLTHSVIRRRYLAHSGRS HLEPEEKQALRLVBEPLKMQVDAAASREDKLDLTKKGKRPPT PCSDPERKRFRPNSESESGSEASPDYGPAPKNGVASRSHHP KEENPRRA\SKAVEESSDEERQDRLPAORGESSEEEBKGYKKG TRKKPVVKKQAPGKASVSRQARESESESAEPVORTAKKVBGN KGTKSLKESQESSEEEILAQKKQREBEVEKEKEEDEKGDWK PRTRNGRRKSAREERSCKQKSOAKRLGDSDEEKEQEAASSG DDSGDRDRPPVQKSEDRQLKGGKRLSGSSSEDEDSGKGEPTA KGRKMARLGSTSGEESDLEREVDSEAGGPGGERKNRSKKKS SRKGRTRSSSSSDSGSPKAGGKAGSGRRGEDHPAVMRLKRYIR ACGAHRNYKKLLGSCCSHKERLSILRAELEALGMKGTGPSLGKCR ALKEQREBAEVAASLDVANIISGSGRPRRTAWNPLGEAAPPGH LYRRTLDSEERPRPAPPDWSHMRGIISSDGESN
6961	340	1646	RPWSSPTMKPNFSLRLRIFNLNCWGIPYLSKHRADMRRLGDGL NQESFDLALLEEVWSQDFQYLRQKLSPTYPAAHFRSGIIGSG LCVFSKHPIQELTQHIYTLNGYPYMIHGGDWFSKAVGLLVHL SGMVLNAYVTHLHAEYNRQKDIYLAHRVAQAWELAQFIHHTSKK ADVLLCGDLNMHPEDLGCCLLKEWTGLHDAYLETRDFKGSSEG NTMVPKNCYVSQELKPPFPFVGRIDYVLYKAVSGFYISCKSFET TTGFDPHRGTPLSDEALMATLFVRHSPQONPSSSTHGP\AERS PL/MCVCLKEALDGSGLGLMA\QARWWA\TFA\SYVIGLGL\LL LALLCVLAAGGGAGEAAIILWTPSVGLVLWAGAFYLFHVQEVNG LYRAQAKLQHVLRGRAREAQDLGPEPQLYALL\LGQOEGDRTKEQ
6962	340	1646	RPWSSPTMKPNFSLRLRIFNLNCWGIPYLSKHRADMRRLGDGL NQESFDLALLEEVWSQDFQYLRQKLSPTYPAAHFRSGIIGSG LCVFSKHPIQELTQHIYTLNGYPYMIHGGDWFSKAVGLLVHL SGMVLNAYVTHLHAEYNRQKDIYLAHRVAQAWELAQFIHHTSKK ADVLLCGDLNMHPEDLGCCLLKEWTGLHDAYLETRDFKGSSEG NTMVPKNCYVSQELKPPFPFVGRIDYVLYKAVSGFYISCKSFET TTGFDPHRGTPLSDEALMATLFVRHSPQONPSSSTHGP\AERS PL/MCVCLKEALDGSGLGLMA\QARWWA\TFA\SYVIGLGL\LL LALLCVLAAGGGAGEAAIILWTPSVGLVLWAGAFYLFHVQEVNG LYRAQAKLQHVLRGRAREAQDLGPEPQLYALL\LGQOEGDRTKEQ
6963	374	2618	RVTPILILKILKKPKTARNQKASENEITQPGGSSAKPGLPCLNF RAVLSPDPALIHSTSLTNSHAHTGSSDCISCKGMTERIHSIN LHNFNSNVLETLNEQRNRGHFCVTVIRIHGSMRLAQRCVLAAGS PFFQDKLLLGYSDIRIPSVSVSVQVQLIDFMYSGVLRVSQSEA LQILTAASLLQIKTVIDECTRIVSQNVGDVFPQIQDSGQDTPRG TPESGTSGQSSDTEGYLQSHPOHSVDRIYSALYACSMQNGSGE RSFYSGAVVSHHETALGLPRDHMEDPSPWITRIHRSQOMERYL STTPETHTRCKQFRPVRIQTLVGNIIHKOEMEDDYDYGQQRVQ ILERNSEECTEDTDQABGTSESEPKGESFDSGVSSSIGTEPDSV EQQFGPGAARDSQABPTQPEQAARAPABGGPQTINQLETGASSPE RSNEVEMDSTVITVSNSSDKSVLQQPSVNTSICQPLPSTQLYLR QTETILTSNLRMLPTLTSNTQVIGTAGNTYLPALFTTPAGSGPK

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			PPLFSLPQPLAGQQTQFVTVSQPGLSTFTAQLPAPQPLASSAGH STASGQGEKKPYECILCNKTFYAKQNYVKHMFVHTGKPHQCSI CHRSFSLKDYLIK\HMTHTGVRAVYQCSICNKRFTQKSSLNVMH RLHRGEKSYECYICKKKFSHKTLERHVALHSASNGTPPAGTPP GARAGPPGVVACTEGTTYVCSVCPAKFDQIBQFNDHMRMHVSDG
6964	1	178	SGRPPFFPPSNTDVFYIKKVTNRWTAGSSYKMTMKSIGKILL QTFIG\NCSMFVLVI
6965	757	208	NVFIEPRIQGFPMKTSAPHGQKHDPFSMGLLPFLAALVCSGCS SGSLGYNLPQNH\GLLGRNTLVLLGQMRRISPFCLKDRSDPFRF PQEKVEVSQQLKA\QAMSLYDVLQOVFNFSHKALL\CCMEHDL PGTPPHFTSSAAGTPGDLGAGDGRRRSWQWVIEGSTLALRRY PQESISTLE
6966	820	1867	IITALGVRCMPGCGPCPGCGMAGPRLLFLTALALRLGRAGGSQP ALRSRGATACRLDNKESESWGALLSGERLDTWICSLGSLMVG LSGVFPLLVIPLEMTMLRSEAGAWRLKQLLSFALGGLLGNVFL HLLPEAWAYTCSASPGGEGQSLOQQQQLGLWVIAIGILTFLALEK /HVPQGGGGDQPGPQORPHCCCRRAQWRPLSGPAGCRARPRCR GP\DIKVSGLNLLANTIDNFTHGLAASPLVSKKIGLITMA ILLHRIPIHEVGDFAILLRAGFDRWSAARKLQLSTALGGLLGAGPA ICTQSPKGVBEETAANWLPPTSGGFLYIALVNVLPDLLEEDPW
6967	162	633	GFLPFKYWILDLSASSRMETDCNPMELSSMSGFREGSBLNGFEG TDMKDMRLAARAVVNDVLPVANNMFVSKSLRCADDAVYINVETK ERNRYCLELTRAGLKUVGYAFDQVDDHLQTPYHSTVYSLLDTL\ SPAYREAFGKR\LLQRLALKRDGQS
6968	1	2265	RGGGGGRRGGPGARERERRPBTMEAAAGRGCFQPHPLQKT LEQPHLSSMSSILGGPAPFARWAQEAAYKESAKEAGAAVAPV PAATEPPPVHLHPAIQPPPPVLPGPFFMPSDRSTERCETVLEGE TISCFFVGGKRLCLPQILNSVLRDFSLQQINAVCDELHIYCSR CTADQLEILKVMGILPFSAPSGLITKTDARLNCALLYGGAYP PPCKKELAASLALGLELSERSVRVYHE\CPGKCKGL\LVPELYS SPSAACIQCLD\CRIMYPHPKFVVHSHKALENRTCHWGF\DSA\ NWRAYILLSQDYTGKEBQARLGR\CLDDVKEKFYGNKYKRVP RVSEPPASIRPKTDDTSSQSPAPSEKDKPSSWLRTLAGSSNKS LGCVHPQRQLSAFRPWPSPAVSASEKELSPHLPALIRDSFYYSKS FETAVAPNVALAPPQKQVVSPPCAAASVRAPEPLATCTQPRK RKLTVDTGPAPETLAPVAAPEKDKDSEAEVEVESREERTSSLSS LSSPSFTSSSSAKDLGSPGARALPSAVFDAAPADAPSGLEAEL EHLRQALEGGLDTKRAKEKFLHEVVIMRVQEEKLSAALQAKRS LHQELEFLRVAKKEKLEATEAKRNLKKEIERLRAENEKMKKEA NESRLRLKRELEQARQARVCDKGCAGRLRAKYSAQIEDLQVKL QHAEDREQLRADLLRERREAREHLEK\VVK\ELQEQLEWPRARBE AAGSEG\AAELEP
6969	1855	118	AGTMHGRLLKVTSEBQAEAKRLEREQKLKLYQSATQAVFQKROA GELDESVLLELTSQILGANPDFAILNCRREVLLQLETOQSPEEL AALVKAELGFLESLRVNPKSYGTHHRCNLLGRLEPENWTREL ELCARFLEVDRENFHCWDYRRFVATQAAVPAEELAPTDLSLITR NFSNYSSWHYRSCLLPQLHPQPDSPGCRLEPDLVLLKELELVQN AFFTPDNDQSAWFYHRWLLGRADPDALRCLHVSERDEACTVSP SRPLLVGSRMBILLMVDSPILVWRTPDGRNRP SHVWLCDL AASLNDQLPQHTFRVIWTAGDVQKECVLLKGRQEGWCRDSTDE QLFRCKLSVEKSTVLQSELESCKELQELEPENKWCILITITILLM RALDPLLYEKETLQYFQTLK\ANDPKRATY\LDDLRSKFLENS VLKMYAEVRVLHLAKDLTLVLCHEQLLLVTHLDLSHNRRLTL PPALAAALRCLEDPPT\VLQASDNATESLDGVTNLPRIQELLL CNNRLQQPAVLQPLASCPRLVLNLQGNPLCAVAGILEQLARLL PSVSSVLT

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6970	3	1528	<p>SPPPLISSPSAVGEGKVAAPCPGRSECARAKMAYIQLEPLNE GFLSRISGLLLCRWTCRHCCQKCYESSCCSSSEDEVILGPFP QTPFWLMASSSDKDGDSVHTASEVPLTPRTNSPDGRSSSDTS KSTYSLTRRISSLESRRPSSPLIDIKPIBFGVLSAKKEPIQPSV LRRTYNDDYFRKPEPHLYSLDSNSDDVSLTDEEILSKYQLGM LHFSTQYDLLHNLTVRVIEARDLPPPIHSDGSRQDMAHSNPYV KICLLPDQKNSKQTVGRKTQKPVFEERYTFEIPFLBAQRRTLL LTVVDFDKFSRHCVIGKVSVPCEVDLVKGGHMKALIPSSQNE VELGELLSLNYLPSAGRLNVDVIRAKQLLQTDVSSQSSDPFVKI QLVHGLKLVKTKTSFLRGITDPFYNESPSFKVPQBELENASLV FTVFGHNMKSSNDFIGRIVIG\QYSSGP\SEPNHWRRLNTHRT AVEQWHSLSRAECDRVSPASLEVT</p>
6971	37	3702	<p>ACFYVPGSRSPFKLI PRHGLVNMGRSGKLP SGVSAKLKRWKKGHS SDSNPAICRHRQAARSRRFSPRSGRSDLTVDVAVKLHNELOSGSL RLGKSRAPEPTMEEBAELVLTEKSSGTFSLGSLDCTNVTFSKVQ RFWESNSAAHKEICAVLAAVTVIRSQGGKETREYFAALIRKA AQHGVCVSLKGSSEFMFEKAPAHHPAAISTAKFCIQEIKSGGSK EATTTLHMLTLLKDLLPCPPEGLVKSCSETLLRVMTLSHVLVTA CAMQAFHSLFHARPGSLTSLAELNAQIITALYDVPSENDLQPL LAWLKVMEKAHINLVRLQWDIGLGHLPFPFGTAVTCLLSPHSQV LTAATQSLKEILKECVAPHMADIGSVTSSASGPAQSVAKMFRAV EEGLTYKFAHANSSVLQLLCVFFACGROAHPVMRKCLQSLCDL RLSEPHFHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSRBTLD FPRSWLLEFVIRDHVQETRLGFFTTYPLPLANTLKSAMDLAQAG STVESKIYDTLQWQMTLLPGFCTRPDVAISPKGLARTLGMAI SERPDLRVTVQALRTLITKGCQAEADRAEVSRAKNFLPLFN LYGQPVAAAGDTPAPRRVLETIRTYLTITDTQLVNSLLEKASEK VLDPASSDFTRLVSLDLVALAPCADEAAISKLYSTIRPYLESK AHGVQKAYRVLEEVCAASPQGGGALFVQSHLEDLCKTLLDSLS TSSPAKRPRLLKCLLHIVRKLASBHEKEFITALIPBVLCTKEVSV GARKNAFALLVEMGHAFIRFGSNORRALQCYLVITYPGLVGAFT MVSCSILALTHLLPEFKGLMGTSTVEQLLENVCLLLASRTRDV KSAIGFIKVAVTVMMDVAHLAKHVQLVMEAGIKLSDDMRHFRMK LRNLET\KFIPK\FGILTNGKKAVGPKEYHRVVLNIRKARAK RHRALSQAABEEEEEEEEEPAGQKGDSEIILADSEDRDNE EEERSRGKEQRKLARQSRRAWLKEGGGDEPLNFDPKVAQRVLA TQPGPGRGRKKDHSFKVSADGRLIIRREADGNMEEEEBAKGED EEMADPMEDVIIRNKKHQKLKHQKEABEBBLEIPPYQAGGSGI HRPVAKKAMPGAEYKAKKAGDVKKGRPDYAYIPLNRSKLNR RKKMKLQCFKGLVKAARSGSQVGHKNRRKDRRP</p>
6972	2179	973	<p>PGGAILLPLWRRTRPREATVPRGAAQRGRARSABGRIPSSQS PARAGGATRSPPPPRPPRPARPPGPSAPPLLRSDAGPGATVSA AAATERARRGATMGALSTLGHMVLPVWFYLSLLMKLFQRSTP AITLESPIKYPLRLIDREIISHDTRFRFALPSPQHILGLFVG QHIYLSARIDGNLVVRPYTPISSDDKGFVDLVIKVYFKDTHPK FPAGGKMSQYLESMDIGDTIEFRGPSGLLVYQGGKFAIRPDKK SNPIIRTVKSVGMLAGGTGITPMLQVIRAIMKDDDDHTVCHLLF ANQTEKDILLRPELEELRNKHSARFKLWYTLDRAPKANDYQGG\ FVNERMIRDHLPPPE\EBPLVLMCGPPPMIYACLPL\DHVCH PTERCFFV</p>
6973	1	1964	<p>LQPRCAHRGLRAQKCGRPAPGVDMVLCVPVIGKLLHKRVVLSA SPRRQEILSNAGLRFVVPSPKFEKLDKASFATPYGYAMETAKQ KALEVANRLYQKDLRAPDVVIGADTIVTVGGLLLEKPVVKQDAY RMLSRFE/SGREHSVPTGVAIVHCSSKDHQLDTRVSEFYEBTKV KFSELSELLWEYVHSGRPMDKAGGYGIALGGMVLVSVHGDPL NVVGFPLNHFCKQLVKLYYPPRPEDLRRSVKHDSIPAADTFEDL</p>

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			SDVEGGGSEPTQRDAGSRDEKAEAGAGQATARABCHRTRETLPPFTRLELEIEGFMLSKGLLTACKLVFDLLKDEAPQKAADIASKVDASACGMERLLDICAAMGLEKTEQGYSTETANVYLASDGEYSLHGFIMHNNDLTWNLFITYLEFAIREGTNQHRRALGKKAEDLFQDAYYQSPETRLRFMRAMHGHTKLTAQVATAFNLSRFSSACDVGGCTGALARELAREYPRMQVTVFDDLDIIBLAHFQPPGPQAVQIHFAAGDFFRDPLPSAELYVLCRIHDDWDDKVHKLSSRVAESC KPGAGLLLVETLLDBEKKRVAQRALMQSLNMLVQTEGKRRLSLEYQCLLELHGFHGVVHILGGVLDALL\PPKWPEAQAACSL
6974	3082	2172	RSCAFAFASFPFLELFPAPGSHRSPPGRGVATSAQCALSVRKLLAARPGIGTKYQATMVYKTLFALCILTAGWRVQSLPTSAPLSVSLPTNIVPPTTIWTSPPONTADTASPSNGTHNNSVLPVTASAP TBLLPKNISIESREEITSPGSNWEGTNTDPSPSGFSSTSGGVH LTTTLEBHSIGTPEAGVAATLSQSAEPPTLISPOAPASSPSSL STSPPEVFSASVTINHSSTVTSTOPTGAPTAPESPTERRSSSDPT PTSHATAEPVPQEKTPPTTVSGKVMCELIDMET\PPPPFG
6975	2	500	RPRPTVHCCKWALKLETAMETLINVFHAHSGKEGDKYKLSKKEL KELLQTELSGFLDVKEML*ATEALKTPREA*KSPIIQCSSRS SLPPAPQPPPYL*LSAVFPPIHLPLPLPQAQKDVDAVDKVMK BLDENGDEVDQFQYVVLVAALTACNFFWENS
6976	1216	970	GCQL*VAYGTTEPSPVTFAPHPEDTVEQKAESVGRIMPHTEARIMNMEAGTLAKLNTPGELCIRGYCVMLGYWGRPQKTERAVDQDKW YWTDVATMNEQGFCIKVGRSKDMLIRGGENIYPAELEDFHHTH PKVQEVQVGVKDDRMGEIEICACIRLKGRETTTVEIKAFCKGK ISHFKIPKYIVFVTNYPLTISGKIQKFKLREQMERHLNL*IKQQ ACPGRLA
6977	1298	588	SLFINTNLLSNQIRKTSFGMCSEPISDNTKDQKGLKTPDFA*RANKKSKHHVNGNRTVBPFPPEGTQMAVFGMCFWGAARRKFWVLKG VYSTQVGFAGGYTSNPTYKEVCSEKTHABVVRVVYQPEHMSFE KLLKVFWEHNDPTQGMROGNDHGTQYRSATYPTSQKQMEALSS KENYQKVLSEHGFGPIITDIREGQTFYVADYHQYLSKNPNGY CGLGGTGVSCPVGIKK
6978	3	242	SFPFRDSRRCGCKGSSLRHTAVAMVKLSKBAKQRLQQLFKGSQFAIRWGFIPLVIIYLGFKRGADPGMPEPTVLSLLWG
6979	3917	1146	DEARVREGEVAAAILSRCHWSGPPPPPPSPDRKGLRGTEPWEAGPGSGATPGARAMDVRLKVNELRERLQRRGLDTRGLKTELAE RLQAALAEAEPPDERELDADDEPGRPGHINEEVETEGGSELEGT AQPPPPGLQPHAEPPGGYSGPDGHYAMDNITRQNFYDTQVIKQENESGYERRPLEMEQQQAYRPEMKTEMKQGAPTSFLPPEASQLKPDQQPQSRKRPHYENRGRGYFEHREDRRGRSPQPPAEDEDDFD DTLVAIDTYNCDLHFVARDRSSGYPLTIBGFAYLWSGARASVGVRRGRVCFEMKINEEISVKHLPSTRPDPHVVRIGWSLDSCTQL GEEPFSGYGGTGKKSNSRFENYGDKFAENDVIGCFADFECN DVLSFTKNGKWMGIAFRIQKALGGQALYPHVLVKNCABEFNF GQRAEPYCSVLPGFTFIQHLPLSERIRGTGPKSKABCEILMMV GLPAAGKTTWAIKHAASNPSKYNILGTNAIMDKMRVMGLRRQR NYAGRWDVLIQQATQCLNRLIQIAARKKRNXYLDQTNVYGSQQRKMRPFEGFQKALVICPTDEDLKDRTIKRTDEEGKDVDPHAVL EMKANFTLPDVGDFLDEVLPFIKLOREADKLVRQYNERGRKAGP PPEKRFDNRRGGGFRGRGGGGGQRYENRGPFGGNRGGFQNRGG GSGGGGNRGGFNRRSGGGGYSONRWGNRDNNSNNRGSYNRA PQQQPPPPQPPPPPPPPPPPSYSPARNPPGASTYNKNSNI PGSSANTSTPTVSSYSPQSGFFPSTFQPSYSQPPYNQGGYSQ GYTAPPPPPPPPAYNYGSYGGYNPAPYTPPPPPPTAQTYPPQPSY NQYQQYQAQWNQYQNGQWPPYIGNYDYSYSGNTQGGTSTQ
6980	1	420	GTRGRKTRVAAAPSTRRTTGNMQLQTRSPAMSLSDPGLGYHT

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			CWTLRWPLPLCSLHALHVHCHLFSRLGTPVSPRLAMDPNCSCEA GGSCACAGSCCKCKCKCTSCRKSCSCCPLGCAKCAQGCICKGA SEKSCCA
6981	10	1054	PGRGFRRASLRPAFAARGVFQGGGLQAKQARTRACAALPTPHPS APRLLEPQGVFSLFPPPPGFWPNNMLTKAQYDBIAQCLVSVPEPT RQSLRKLKQRFPSQSQATLLSIFSQBYQKHKRTHAKHHTSEAI BSYYQRYLNGVVKNGAAPVLLDLANBVYDAPSIMARLILERFIQ RHESTPPSKSIINSMLRDP SQIPDGVLANQVYQCVVNDCCYGPL VDCIKHAIGHEHEVLLRDLLEKNLSFLDEDQLRAKGYDKTPDF ILQVPVAVSGHIHWTESKASPGDECSHHAYLHDQFWSYWNRFQ PGLVIYWYGFQELDCNRERGILLKACFPPTNIVTLCHSIA
6982	153	1285	FPQDCSAPAAPGLAGSEPRRLRAYRRRRQRARGLKRVANLAPP PSLLQGLQWQAQAPVDGTLGPEDSRASSPMIQNSRPSLLQPDV GDTVETMLHPVIKAFLCGSIISGTCSTLLFQPLDLLKTRLTQIQ PSDHGSRVRGMLAVLLKVVRTESLLGLWKGMSPSIVRCVPGVGI YFGTLYSLKQYFLRGHPPTALESVMLGVGSRVAGVCMSPITVI KTRYESGKYGYESIYAALRSIVHSEGRGLFSGLTATLLRDAPF SGIYLMFYNQTKNIVPHDQVATLIPITNPFSCGIPAGILASLVT QPADVIKTHMQLYPLKQWIGQAVTLIPKDYGLRGFPQGGIPRA LRLTMAAMANTVYBEMMAKMGILKS
6983	82	773	EMSFLQDPSFFTGMWSIGAGALGAALALLLANTDVFLSKPQK AALSYLEDIDLKTEKEPRTFKAKELWEKNAGVIMAVRRPCCFL CREEAADLSSLSKMLDQLGVPLVAVVKEHRTVEVKDQFPYFKGB IFLDEKKKPYGPQRRMMFMGFIRLGWYNNFFRAWNGGFSGNLE GEGFILGVPVVGSGKQGLLEHREKEPFGDKVNLISVLEAAKMI KPQTLASEKK
6984	1845	1282	GGRSAYSLPAGSLPRVPATAAKMASGVQVADEVCRIFYDMKVR KCSTPEBTKKRKKAVIDPCLADKKCIIVEBGEKILVGDVGVITIT DPFKHFVGMLEPKDCRYALYDASFETKESRKEELMFFLWAPELA PLKSKMIYASSKDAIKKKFQGIKHECQANGPEDLNRACTAEKLG GSLIVAFEGCVP
6985	1887	1324	RRTAGIYPCFPKPGRTRHALCSVLLLLTGQLAFDDFQESCAMM WQKYAGSRRSMPLGARILFHGVFYAGGFAIVYLYIQKFHSRALY YKLAVEQLQSHPEAQEALGPPPLNIHYLKLIDRENFDIVDAKLE IPVSGSKSEGLLYVHSSRGGPPQRWHLEDEVFLELKDGGQIPVFK LSGENGDEVKKE
6986	642	1350	YHLYFKMGDPNSRKKQALNRLRAQLRKKKESLADQDFKMYIAF VFKEKKKKSALFEVSEVIPVMTNNYEENILKGVDRSSYSLESSL ELLQKDVVQLHAPRYQSMRRDVIGCTQEMDFILWPRNDIBKIVC LLFSRWKESDHPFRPVQAKFEFHGDYEQFLHVLRSKDKTGIV VNNPNQSVFLFIDROHLQTPKNKATIFKLCSICLYLPQEQLTWH AVGTIEDHLRPFYMP
6987	1623	341	LEAAEKASRAFKESQRQTDSKNYETENWSPQSKRRYDMYNTAC FLGIEVGLYTIQILQLTPFFHKNELSKKHMVQPLSGKWTIPP DPRNECYLALSFKFTSHLKNLQSDLRKCFDFIDYMLLLKMYTQ KETABIIMLSKKVSRCFKRYTELFCHELDPCLLQSKESQLLQRENC RKLEALRADRFAGLLEYLNPYKDATTMESIVNEYAFLQONS KKPMTNEKQNSILANIILSCLKPNKLIQPLTTLKKQLREVLQF VGLSHQYPGPYFLACLLFWPENQELDQDSKLEKYVSSLNRSFR GOYKRMCRSKQASTLFYLGKRGKLSIVHAKIEQYFDKAQNTN SLWHSGDVVKKNEVKDLLRLTGQAEGLISVEYGTTEKIKIPV ISVYSGPLRSGRNTERVSFYLGFSIEGPPGL
6988	3	689	TQLLRRPAVPVGSAAAGIRSGLWSASSGHCAPAGRAHAPVPR LVRGLGAASTAAPQDAQTGPQMPRADCMRHLPIYFCRGQVVRG FORGSKQIGIPTANFPQVVDNLPADISTGIYYGWASVSGSDVH KMVVSIGWNPYYKNTKKSMBTHIMHTFKEDFYGRILNVAIVGYL

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			RPEKNFDSLESLSIAIQGDIEAKKRLELPEHLKIKEDNFFQVS KSKIMNGH
6989	2	1118	LMPSDRPLSPSTHASAGSHCHAPPTTARRAFPPIPGSKSNMATL KDQLIYNLLKEEQTPQNKITVVGVGAVGMAAISILMKDLADEL ALVDVIEDKLGEMMDLQHGSLFLRTPKIVSGKDYNTANSKLV IITAGARQEGESRLNLVQRNVNIFKPIIPNVVKYSPNCKLLIV SNPVDILTYVANKISGFPRNRVIGSGCNLDSARFRLMGERLGV HPLSCHGWVLGEHGDSSVPVWVGMMVAGVSLKTLHPDLGTDKDK EONKEVHKQVVEYAYEIKLKGYSWAIGLSVADLAESIMKNLR RVHPVSTMIGLYGIKDDVFLSVPCILGQNGISDLVKVTLTSEE EARLKKASDTLNGIQKELQF
6990	719	258	THASGMASVVLALRTRTAVTSLLSPTATALAVRYASKSGGVS KNLGGKSSGRRQCIKKMEGHVYHAGNIATQRHFRWHPGAHVGV GKNKCLYALEGIVRYTKEVYVPHPRNTEAVDLITRLPKGAVLY KTFVHVVPAPKEGTFFKLVAML
6991	169	451	RRSSDFHNPGLSRFPVSLRENIIHQVICSTENKRRNPKKIAYLL SSLMTNLNPNSTENQPVDAWAFITLQEFITVACVEGTGCLF CGRHVH
6992	944	510	RQAPGCSLALRQVRQVYCGLVRAFPQVTRPLSSRFVBERGALY RSPMNQENPPYPYGGPGTAPYPPYPQPMGPGMGGPYPPPGQY PYQGPQYQWQGGPQEPKKTIVYVVEDQRRDELGPSTCLTACWT ALCCCCLDMLT
6993	1	374	QWCVTCPOHNARQGPVPPGIQAYGAAPFEDLOVDFTEMSKCRG DRVNIKWNVNASLCPNLKGPQTVVLSPTAVKVEGIPAWIHSH VKPAARETNEARSPDNPFRVTLKKTSPAPVTPGS
6994	346	1100	QWPEKDPVMAASSISSPHGKHVFKATIMVLVALILLHSAQAQR RDPAPPQQKREAPVDVLTQIGRSVRGLDAGWIGPETMHLVSES SSQVLWAISSAISVAFALSGIAAQLLNALGLAGDYLAQGLKLS PCQVQVTELLWAGALVYVWLLSLLGLVLALLGRILWGIKLVIF LAGFVALMRSPDPSTRALLALLILYALLSRI.TGSRASGAQL EAKVRGLERQVEELRWRQRAAKGARSVEEE
6995	144	1346	GSVAVGLSGIMAAQKDLWDATVIGAGIQCCFTAYHLAKHRKRL LLEQFFLPHSRGSSSHGQSRIIRKAYLEDFYTRMMHECYQIWAQL EHRAGTQLHRQTGLLLGMKENQELKTTQANLSRQRVEHQCLSS EELKQRFPPNIRLPRGEVGLLONSGGVIYAYKALRALQDAIRQLG GIVRDGEKVVEINPGLLVTVKTTSRSYQAKSLVITAGPWTNQLL RPLGIEMPLQTLRINVCYWRMVPGSYGVSAFPCLNLGLCPH HIYGLPTGEYPLMKVSYHHGNHADPEERDCPTARTDIGDVQIL SSFVRDHLPLDKPEPAVIESCMYNTNPDEQFILDRIHPKYDNIVI GAGFSGHGPKLAPVVGKILYELSMKLTPTSYDLAPFRISRPPLG KAH
6996	543	1942	ETANABAAARKSAMDWKEVLRRLATPMTCPNKKKSEQELKDEE MDLFTKYYSWKGRKNTNEFYKTIPRFYYRLPAENEVILLQKLR EESRAVFLQRKSRELLDNEELQNLWFLDKHQTTPMIGERAMIN YENFLKVGKAGAKCKQFFTAKVFAKLHTDSYGRISIMQFFNY VMRKVWLHQTRIGLSLYDVAGQGYLRESDEENYILELIPFLPQL DGLEKSFYSFYVCTAVRKFFFLDPLRTGKIKIQDILLACSPLOD LLELRDEELSKESQRTNWFSAPSALRVYGYINLKDHNHMLSK EELSRVGTATMTNVFLDRVFOECLTYDGEMDYKTYLDFVLALEN RKBPAALQYIFKLLDIENKGYLNVFSLNYFFRAIQELMKIHGQD FVSFQDVKDEIFDMVKPKDPLKISLQDLINSQGDVTVTILIDL NGFWTYENREALVANDSENSADLDDT
6997	370	1104	AMBLTIFILRLATYILTFPLYLNLFLGLWSWICKWFFYFLVRF TVIYNEQMAKKRELFSNLQEFAGPSGKLSLEVGCGTGANFKF YPPGCRVTCIDPNENFEKFLIKSIAENRHLOFERFVVAAGENMH

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			QVADGSDVVVCTLVLCVKNQERILREVCRVLRPGGAFYFMEH VAACSTWNYFWQQLDPANHLDFDGCNLTRESWKALERASF LKLQHIQAPLSWEIVRPHIYGYAVK
6998	2	616	FVSRALLRVRSRRRPAERAAAPGRPEDAPIECPGATNCPEPLWC SHLPVPYAPPTMESRGKSASSPKPDTKVPQVTTAKVPPAADGK APLTKPSKKRAPAKQPPAAPPTTAPAKKTSARADPALLNNHNS LKPAPTVPSSPDATPEPKPGDGAEDRAASGPGGRGPNWSEN FNPILLVAGGVAVAAIALILGVAFVLRKK
6999	14	1591	GRAGACSRRTAMSEIESSDVIRLIMQYLKENSILHRALATIQE ETTVSLNTVDSIESFVADINSGHWDTVLQAIQSLKLPDKTLIDL YEQVVLRLRLRELGAAARSLLRQTDPMIMLKQTQPERYIHLENL LARSYFDPREAYPDGSSKEKRRAAIAQALAGEVSVVPPSRIMAL LQALKWQHQGLLPPGNTIDLFRGKAAVKDVEEKFPTQLSRH IKFGQKSHVBCARFSPDQQLVLTGSVDGFIENVNFTTGKTRKDL KYQAQDNFMMDDAVLNCMFSRDTEMLATGAQDGKIKVWKIQSG QCLRRFERAHSKGVTCLSFSKDSSQILSASFDTQIRIHGLKSGK TLKEFRGHSSFVNRAFTQDGHYIISASSDGTVKIWNMKTECS NTFKSLGSTAGTDITVNSVILLPKNPEHFPVVCNRSNTVIMNMQ GQIVRSPSSGKREGGDFVCCALSPRGWEIYCVGEDFVLYCFSTV TGLERTLTVEKDVIGIAHHPHQNLIATYSEDGLLKLWKP
7000	2	827	GPQVVFLELMESEOPPESESEFFSQREBEENEERAEPEETGP KNPLLQPALTGDEGLQKIFEDPENPHHEQAMQLLEEDIVGRN LLYAAACMAGQSDVIRALAKYGVNLNEKTRGYTLHCAAANGRL ETLKALVELDVIDEALNFRERARDVAARYSQTECVFELDWADA RLTLKKYIAKVSIAVTDTEKSGKLLKEDKNTILSACRAKNEWL ETHTEASINELFEQRQQLIEDIVTPIFTKMTTPCQVKSASVTSH DQKRSQDDTSN
7001	2056	844	RRCLIIAFLKGCFFIYFIFIPETEFLLSCCPGWSAVAQSRILAN FASQVQAIFILPKDSQVGPDKSEAPKRALYRSVFGSGEICGP TSPKRLCIRPSEPVDVAVVSVKHDPPLPLPEANGHRSTNSPTI VSPAIVSPTQSRPNMSRPLITRSPASPLNNQGIPTPAQLTKSN APVHIDVGHHMYTSSLATLTKYPESRIGRLFDGTPIVLDLSLKQ HYFIDRDGQMFYIILNFLTSLKLLIPDDFKDYTLLEYEAKYFOL QPMLEMERWKQDRETGRFSRPCCLVVRVAPDLGERITLSGDK SLIEVFPEIGDVMCNVSNAGNHNDSHVIRFPLNGYCHLNSVQ VLERLQQRGFIVGSCGGVDSSQFSEYVLRRELRRTPRVPSVI RIKQEPDL
7002	1043	498	PMPSSSTRWITS*TYTDTSSAWACRPTTGCT*TAAPGPTVRWWP TPCSRHQSRRLTCWCSTRPCGR*GGLCVRTAPTRPTTSASSS SWTSAGTSWPAGRRGTATSGTATTSVNPFCGTRMNSTQWSSV PRSRCCSRPATTTPSKPGAPHAPCASSRHLAHLAPSSPGLPA RGAEVC
7003	818	61	QGRFRAFCNQDFLQPPGMRLSALLALASKVTLPPHYRYGMSPP GSVADKRKNPPWIRRRPVVVBPISEDDWYLFCDTVEILBCKDA GKQKVVQVIRQRNWWVVGGLNTHYRYIGKTM DYRGTMIPSEAP LLHRQVKLVDPMDRKPTIEIWRFTAGERVVRVSTRSGRIIPKPE FPRADGIVPTWIDGPKDTSVEDALERTYVPCIKTLQEEVMEAM GIKETR\NTRRSIGIEPGABQILLNFCPSLEG
7004	121	2285	FLLPVLTSSRLRQPAVPHARLGGVPEPAMKSAKAKTPRKPTVKK G\PKRTILKTQLG/YICVRPLGFPDQECCEVINNTTVQLHTPE GYRLNRNGDYKETQYSFKQVFGTHITQKLEFDVVANPLVNDLIH GKNGLLFTYGVTSKGTHTMTGSPGEGGLLPRCLDMIFNSIGSF QAKRYVFKSNDNRNSMDIQCEVDALLERQKREAMPNPKTSSSKRQ VDPEFADMITVQEFCKAREVDEDSVYGVFVSYIETNNYIYDLL REVFPDPINPNLHNLNCFVKIKHNHMYVAGCTEVEVKSTERAFE VFWRCQKKRRIANTHLNRSSRSHSVFNILVQAPLDADGDNVL

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			QKEQITISQLSLVDLAGSERTNRTABGNRLREAGNINQSLMT LRTCMDVLRENQMYGTNKMVYRDSKLTPLPKNYFDGEGKVRMI VCVNPKAEDYEENLQVMRFAVTOEVEVARPVDKACGLTPGRR YRNQPRGP\IGNEPLVTDVVLQSFPPPLPSCRILDINDRQTLPR LIEALEKRNHLRQMMIDEFNKQSNAPKALLQEFDAVLSKENHMQ GKLEKHKMISGQKLEIERLEKKNKTLBYKIEILBKTTTIEED KRNLQOELETQNQLQRFQSDKRRLEARLQGMVTETTMKWEKCE ERVAAKQLEMQNKLWVKDEKLQKKAIVTEPKTKPERPSRER DREKVTQRSVSPSPVPVSYL
7005	63	876	RNMALYQWRCLRLQGLQACRLHTAVVSTPPRLAERLGLFBERL WAAQVKRLASMAQKEPRTIKISLPGGQKIDAVAWNTTPYQLARQ ISSTLADTAVAAQVNGEPYDLERPLETDSLRPLTFDSPEGKAV FWHSSHTVLGAAABQFLGAVLCRGPSTBYGYHDFPLGKERTIR GSLEPLVIERICQELTAARPFRRLEASRDQLRQLFKDNPFKLHL IERKVTGPTAIVYCGTLVDLCQGPLRHTGQIGLKLKLSNSSS LWRSSG
7006	22	898	NAPGRHSTAVKMAAAWLQVLVILLILGAHPSPLSPFSAGPAT VAAADRSKWHIPIPSGKNYFSGKILFRNTTI FLKFDGEPCLDS LNTITWYLSADCYNEIYNFKAEVEVLYLEKLEKRGSLGKYQTS SKLPQNCSELEFKTQTFSGDFMHRPLPLGKQKQAKENGNTLFTIG DKTAMHEPLQWQDAPYIFIVHIGISSKSSKENSLSNLEFMTT VEVKGPYEYLTLEDYPLMIFMVMCIVYVLFGLWLAWSACYWR DLLRIQFWIGAVIFLGMLEKAVFYAGFO
7007	2	1001	AMTVSGPGTTPRPRATPGASSVEQLRKEGNELFKCDYGGALAA YTOALGLDAPQDAVLRNRRAACHLEKEDYDKAETASAKAEK DGGDVKALYRRSQALEKLGRLDQAVLDLQRCVSLPKNVFOEA IRNIGGQIQEKVRYMSSTDAKVEQMFQIILLDPEBKTEKKQKAS QNLVVLAREDAEAKIFPSNGVQLLQRLDMGETDMLAALRTL VGICSEHQSRTVATLSILGTRRVVSLGVESQAVSLAACHLLQV MFDALKEGVKGFRCGKGAIVGENKQVWGLDVTVMEGMGLSQ PGQFFGDTCSCLFGIRPGDIILL
7008	70	1478	CRSALGHERPPPAHLPAAGRRRLQTCPRSCRNLGRPPSGLPPGPR SPPPLAGPGQKMWQKPAELQGFHRSFKQNPFLAPSLDQPDH GDSDFGLQCSARPDPASQPIDIPDAKRGKKKKRGRATDSFSG RPEDEVYQLQSDVLEGAHARVQTCINLITSQYAVKIEKQPGH IRSRVFREVEMLYQCQGHNVLELIEFFFEEDRFYLVFEKMRGG SILSHIHKRRHFNRLASVVQDVASALDFLHNKGIAHRDLKPE NILCEHPNQVSPVKICDFDLGSGIKLNGDCSPISTPRLTTPCGS AEYMAPEVVEAFSEASIIDKRCDLWSLGVILYILSLGYPPFVG RCGSDCGWDRGEACPAQNMFLFESIQEGKYEFPDKDWAHISCAA KDLISKLLVRDAQRLSAAQVLQHPWQGCAPENTLPTPMVLQR WDSHFLLPHPPCRIVHVRPGGLVRTTVNE
7009	1	626	ARQLRNSWVDDFVAAPLIPLSQQIPTGNSLYESYYKQVDPAYTG RVGASEAALFLKKSGLSDIILGKTNDLADPEGKGFLDKQGFYVA LRLVACAQSGHEVTLSNINLSMPPPKFHDTSPLMVTTPSAEAH WAVRVEKAKFDGIFESLLPINGLLSGDKVKPVLAMNSKLPDVL GRVNDLSDIDKDGHLVRDEFAMHLVYRALE
7010	79	571	SHTRRAVVVPETLLSPLCPILGGGTAMSGGEQKPERYYVGVDTGT GSVRAALVDQSGVLLAFADQPIKNWEPQFNHHEQSSEDIWAACC VVTCKVVGIDLNQIRGLGFDATCSLVVLDKQFHPPLFVWQEGDS HRNVIMWLDHRAVSQVNRINETKHSVLQYVGG
7011	3	994	RIQTLPNQNSQTQPLKTPPAVLQPIAPQTTFGVQVQTPQPSL LQAQISAASITPLQTPQPLQPPQKAGLLQPPVRIVSQPPQ ARRLOPPSRFSGRNDRGDQVPRKDRSRERERRRRSRERSPO RKRSRERSPRRERERSPRRVRVVPYRYVQFSKPSLDCPSDDMM ELRRRYONLYIPSDFFDAQFTWDAFPLSRPQLGNFCNFYVMH

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			REVESLEKNMAILDPPDADHLYSAKVMLEASPSMEDLYHKSCAL AEDPQELRDGPOHPARLVKFLVGMKSKDEAMAIGGHWSPSLDGP DPERKPSVLIKT\AIRCCKALTG
7012	1	2661	RRAGSVKRGEARLFGPTERQSERPLRPSAARRPEMLSGKAAAA AAAAAAATGTEAGPCTAGGSENGSEVAAPAGLSGPAEVPGA VGERTPRKKEPPRASPPGGLAEPGSGAGPAGPTVVPGSATPME TGLAETPEG\RRTSRRKRKRVYREMDSELANLSEDEYYSEER NAKAEKEKKLPPPPQAPPEBENESEPEBPSGVEGAAPQSRLPH DRMTSQEAACFPDIISGPOQTQKVFLFIRNRTLQWLNDNPKIQL TFEATLQQLRAPYNSDTVLVHRVHSYLERHGLINFGIYKRIKPL PTKKTGKVIIGSGVSGLAARQLQSGMDVTLLEARDRVGGRV ATFRKGNVADLGAMVVTGLGPNMAVVSQVNMELAKIKQKCP LYRANGQAVPKKDEMVEQEFNRLLEATSYLSHQLDNFVNLNKP VSLGQALEVVIQLQEKHVQDEQIEHWKIVKTQBELKELNKMV NLKEKIKELHQYQYKEASEVKPPRDITAEFLVSKHRDLTALCKE YDELAETQGLKEEKLQLEANPPSDVYLSRRDRQILDWHFANLE FANATPLSTLSLKHWDQDDDFEFTGSHLTVRNGYSCVPVALAEG LDIKLNTAVRQVRYTASGCEVIAVNTSTSTQTFIYKCDVLCITL PLGVLKQPPAVQFVPLPEWKTSAVQRMGFGNLNKVVLCFDRV FWDPSVNLFGHVSTTASRGELFLFNLYKAPILLALVAGEAAG IMENISDDVIVGRCLAILKGI FGSSAVPQPKETVVSRRWADPWA RGSYSYVAAGSSGNDYDLMAQPIITPGPSIPGAPQPIPRLFFAGE HTIRNYPATVHGALLSGLREAGRIADQFLGAMTYTLRQATPGVP AQQSPSM
7013	1	2661	RRAGSVKRGEARLFGPTERQSERPLRPSAARRPEMLSGKAAAA AAAAAAATGTEAGPCTAGGSENGSEVAAPAGLSGPAEVPGA VGERTPRKKEPPRASPPGGLAEPGSGAGPAGPTVVPGSATPME TGLAETPEG\RRTSRRKRKRVYREMDSELANLSEDEYYSEER NAKAEKEKKLPPPPQAPPEBENESEPEBPSGVEGAAPQSRLPH DRMTSQEAACFPDIISGPOQTQKVFLFIRNRTLQWLNDNPKIQL TFEATLQQLRAPYNSDTVLVHRVHSYLERHGLINFGIYKRIKPL PTKKTGKVIIGSGVSGLAARQLQSGMDVTLLEARDRVGGRV ATFRKGNVADLGAMVVTGLGPNMAVVSQVNMELAKIKQKCP LYRANGQAVPKKDEMVEQEFNRLLEATSYLSHQLDNFVNLNKP VSLGQALEVVIQLQEKHVQDEQIEHWKIVKTQBELKELNKMV NLKEKIKELHQYQYKEASEVKPPRDITAEFLVSKHRDLTALCKE YDELAETQGLKEEKLQLEANPPSDVYLSRRDRQILDWHFANLE FANATPLSTLSLKHWDQDDDFEFTGSHLTVRNGYSCVPVALAEG LDIKLNTAVRQVRYTASGCEVIAVNTSTSTQTFIYKCDVLCITL PLGVLKQPPAVQFVPLPEWKTSAVQRMGFGNLNKVVLCFDRV FWDPSVNLFGHVSTTASRGELFLFNLYKAPILLALVAGEAAG IMENISDDVIVGRCLAILKGI FGSSAVPQPKETVVSRRWADPWA RGSYSYVAAGSSGNDYDLMAQPIITPGPSIPGAPQPIPRLFFAGE HTIRNYPATVHGALLSGLREAGRIADQFLGAMTYTLRQATPGVP AQQSPSM
7014	3	3950	DPEVGDKIRILATLEDGWLEGSLEKRTGIFPYRFVKLCPTDTRVE ETMALPQEGSLARIPETSLDCLNTLGVEEQRHETSDHEAREPD CIISEAPTSPLGHLTSEYDTRNSYQDEDTAGGPPRSPGVWEM PLATDSPTSDPTEVVNGISSQPQVFFHPNLQKSQYYSVGGSH HSEQYPDLLPLEARTRDYASLPPKRMYSQKLTQKPVLPYRGS SVSASRVVKPRQSSPQLHNLASYTKKHHTSSVYSISERLEMKPG PQAQGLVMEAAHSGQDGSGLDLSKLTQQLIEFEKSLAGPGTEP DKILRHFSIMDPNSEKDIVRGSSKLITQELPERRKALRP PCTPVSTSPHLLVDQNLKPAPPLVVRPSRPAPLPPSAQQRINA VSPKLLSRHPTCETLEKEGPGHMGSLDQTSFCPLVLRIRME RDLDMYSRAQSEINLMLEKQDESSRAETLEDLKFCSNIESLN

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			<p>MEIQQLREMTLLSSQSSSLVAPSGSVSAENPEQRMLEKRAKVIK ELIQTERTYIRDLEMCIERIMVPMQQAQVFNIDFEGLFQNMQMV IKVSKQLLALEISDAVGPFVLGHRDELEGTYKIYQCNHDEAIA LLEIYEKDEKIQKHLQDSLADLKSLYNEWGCTNYINLGSFLIKP VQRMRYPLLLMELLNSTPSEHPDKVPLTNAVLAVKKEINVNINE YKRRKDLVLKRYRGDEDSIMEKISKLNTHSIKKSNNRVSSHLLKH LTGAPAQIKDEVFEETENFRMQRERLIKSFIRDLISLYLQHIRE ACVKVVAVSMWDVCMERGHRLDLEQFERVHYISDQLFTNFKER TERLVISPLNQLLSMFTGPHKLVQKRFDKLLDFYNCTERAELK DKKTLEKLSARNNYEALNAQILLDELKPFHQYAGLFTNCVHGY ASAEHCFVHQALEQLKPLLSLLKLVAGREGNLIATPHEEHSRVLQ QLQVFTFFPESLPATKKPFERKTIDRQSARKPLGLPSYMLQSE ELRASLLARYPPKFLQAERNFNAAQDLVSLLEGDLVGVIKKK DPMGSSQNRWLDINGVTGKGFVYSSPLKPYNPRRSHSDASVGS TESEHSGSSSRPFRQNSGSLTFNPN\8\MAVSFTSGSCQKQKP DASFPKKEWDQGTLSALNPSNSESPPSRCPDSDPSTQPRSGD SADVARDVKQPTATPRSYRNFHPEIVGYSVPGRNGQSQDLVKG CARTAOAPEDRSTEDGSEAGNQVYFAVYTFKARNPNELSVSA NQKLKILEFKDVTGNTENWLLAEVNGKKGVPVSNYIRKTEYT</p>
7015	1842	513	<p>RQAWHE\VAAPSWEGARLVQSVLRVWQVGFHVARERVIFFSSLL GFQRRRCVSCVAGSAPSGPRLASASRNGQGSALDHFGLGFSQPS SVTPCPVAVSMNRDEQDVLVHHHPDMPNSRVLRLVLLGAPNAG KSTLSNQLLGRKVFVPSRKVHTTRCQALGVITEKETQVILLDT GIISPGKQKRHHLELSLLEDPNKSMESADLVVVLVDVSDKNTN QLSPQLRLCTKYQIPSVLVMNKVDCLKQKSULELTAALTEG VWNGKLLMRQAFHSHPGTHCPSPAVKDPNTQSVGNPQRIGWPH FKRIFMLSALSQEDVKTLLQYLLTQAQPGPWEYHSAVLTSTQTP EICANIIREKLLBHLPEVFPYVQKTAVWEEGPGGELVIGKQL LVPKESYVKLLIGPKGHVISQIAQAGHDLMDIFLCDVDIRLSV KLLK</p>
7016	167	2513	<p>ILNAPKPPPPRDSVEAVAARDTGGGSGWTGMDVSGQETDWRST AFRQKLVSQIEDAMRKAGVAHSSKSDMESHVFLKAKTRDEYLS LVARLI IHFRDIHNKKSQASVSDPMNALQSLTGGPAGAGAGIGM PPRGPGQSLGEMGSLGAMGQPMSLSGQPPPGTSGMAPHSMVAVS TATPQTQLQIQVAAAAAATARSSSSSSSRRYSSSSSSSSSKQ FQAQSSAMQO\QFOA\VVQQQQQL\QQQQQQQHLIKLHEQNOQ QIQQQQQQLQRIQQLQQLQQQQQQQQQQQQQALQAPPIQPP PMQQPQPPPSQALPQQLQMMHHTQHHPQPPQPPQPPVAVQNPFSQ LPPQSQTQPLVSAQALPGQMLYTQPFPLKFRABMVVQPPVQPP QVQQQQTAVQTAQAQMVAPGVQVQSLSLPMSSPSPGQQVQTP QSMPPPPQPSQPPGQSSQPNSSVSSQAPSPSSFLPSPPQPF \QSPVTARTPQNFVSPSGPLNTPVNPSSVMSPPAGSSQAEQQY LDKLLQLSKYTEPLRRMINKIDKNEDRKKDLKMKSLDLITDP SKRCPLKTLQKCBIALEKLENDMAVPTPPPPVPTTQQYLQCP LLDAVLANIRSPVFNHSLYRTFVPAMTAIHGPPITAPVVCTRKR RLEDDERQSI PSVLQGEVARLDPKFLVNLDPHSCSNNGTVHLIC KLDDKDLPSVPPLELSVPADYPAQSPWLIDRQWQYDANPFLQSV HRCMTSRLQLPDKHSVTALLNTWAQSVHQAQCLSA</p>
7017	1	1785	<p>INLCNTCYMNSVI*ALFMATDPRQVLSTNLNGCNSLMKLOHL FAFLAHTQRRAYAPRIFFRASRPWFTPRSQDQCSEYLRFLDR LHEEEKILKVQASHKPSEILBCSETSLQEVASKAAVLTETPRTS DGEKTLIEKMPGGKLRTHIRCLNCRSTSQAFAFTDLSLAFWPS YSLEYMSCPDCSQSPSIQDGLMQASVPGPSEEPVYVNPPTAFA ICDSLUNEKTTIGSPNEFYCSENTSVNENSKILVNKDVQKPG GRTTTPSVTDLNLYFLAPEILTGDNQYVCNCASIQNAEKTMQIT REPEYLLILTLLRFSYDQKYHVRKILDNVSLPLVLELPVKRITS</p>

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			FSSLSBSWSVDVDFDLSLENLAKKLKPSGTDEASCTKLVPYLLS SVVHSGSISSESGHYYSARNITSTDSSYQMYHQSEALALASSQ SHLLGRDPSAVFBDLENKRMSKEWFLFNDSRVTTFTSPQSVQK ITSRFPKDTAYVLLYKKQHSNTGLSGNNPTSLGLWINGDPPLOKE LMDAITKONKLYLQEQELNARARALQAASASCSPRPNQFDDNDP PGSCGPTGGGGGGGNTVGRVLF
7018	484	1066	SLVFRGNTWSGEAGHHCALFNLAAYHQLFVGTERIRAPETIFQ PSLIGBEQAGIAETLQYILDYRKDVQEMLVQNVFLTGGNTMYP GMKARMEKELLEMRPFRSSSQVQLASNPVLDWYRGARDWALNHL DDNEVWITRKEYEKGGEYLKREHCASNIYVPIRLPKQASRSSDA QASSKGSAAACGGGAGEQA
7019	1048	335	APGGFLVTMVFAPSPFPMWLGCCSHVETAGPPTLCKDMSALVAA RMRHIPLAPGSDWRDLNIEVRLSDGTMARKLRYTHHDKRNGRS SSGALRGVCSCEAGKACDPAARQNTLIPWCLPHTGNRHNHWA GLYGRLEWDGFFSTTVTNPEPMGKQGRVLHPEQHRVVSVRRCAR SQGFPTDYRLFGNILDKHRQVGNVPPPLAKAIGLEIKLCMLAK AREASAKIKEEEAAKD
7020	1	2154	PADSKRKSVLDDKIKNLQVALTSKQSLTAMSFVARNTFKRVR NGPLMRKVAVFFSNTPTTRASPQLREAVLKLSDAGITPLFLTRQE DRQLINALQINNTAVGHALVLPAGRDLTDFLENVLTCHVCLDIC NIDPSGFGSWRPSFRDRRAAGSDVDIDMAFLDSEATTTLFQF NEMKKYIAYLVRLDMSDPKASOHFARVAVVQHAPSESVDNAS MPPVKVEFSLTDYGSKEKLVDPLSRGMTQLQGTALGSAIEYTI KNVFESAPNPRDLKIIVLMITGEVPEQQLEEAQRVILQAKCKGY FFVVLGIGRKNVKEVYTFASEPNDFVFKLVDKSTELNEEPLMR FGRLPSFVSSENAFYLSPIRDKQCDWFGQDQPTKNLVKFGHKQ VNVNPNVTSSPTSNPVTITKPVTTTKPVTTTTPVTITTKPVTI INQPSVKPAAAKPAPAKPVAAPVATKTATVRPPVAVKPATAAK PVAAPAAVRPPAAAAAKPVATKPEVPRPQAAKPAATKPAATK MVMSREVQVFETENSARKLHWRPEPPGPFYDITVTSADQS LVLKQNLTVTDVIGGLLAGQTYHVAVVCYLRQVRATYHCSFS TKKSQPPPPQPARSASSSTINLMVSTELALTDICKLPKDEG TCRDFILKWYDPNTKSCARFWYGGCGGNENKFGSQKBEKVCVA PVLAKPGVISVMGT
7021	2	338	VNAVSPFPNGYAFATGSDDATCRLFDLRADQELLLYSHDNIICG ITSVAPSKSGRLLLAGYDDPNCNVWDTLKGDRAVLGHDNRVS CLGVTDDGMAVATGSWDSFLRIWN
7022	2	856	VYIGSPWSPHLLIPDMRKLFAERQDLPRDIQSLPRNAALRKN DLIKRARLAKVHAYIISLKKEMPSVFGKDNKKKSLVNNLAET GRIEREHQISPGDFPNLKRMDQLQAQDFSKFQPLKSKLLEVVD DMLAHDIAQLMVLVRQESSORPIQMVKGGAFTGLHGPFGHGYG EGAGEGIDDAEWWVARDKPMYDEIFPYTLSPVDGKITGANAKKEM VRSKLPNSVLGKIWKLADIDKDGMLDDDEFALANHLIKVKLESH ELPNELPAHLLPPSKRKVAE
7023	2	748	AMVFGGVVPVVPQYRDIRRTQADGFSTYVCLVLLVANILRIE WFGRRFPESPLLWQSAIMILTMLMLKCLTEVRVANELNARRRSF TAADSKDEBVKVAPRRSFLDFDPHFQWSSFSQVQCVLAFTG VAGYITYLSDSALFVETLGFVAVLTEAMLGVPQLYRNHRHQST EGMSIKMVLMTSGDAFKTAYFLKGAFLQFSVCCGLLQVLVDLA ILGQAYAFARHPQKPAPHAVHPTGTAL
7024	1207	190	RTGVTGVVAQVVMFSGGGVLSGGEQLQMPVKPERGLGPSDGWLV SSRRGSPGTVLGLPFWLLTPVLVSRISRMILLTRESPTAWHRLS QLKPPVLPCTLGGQALHLRSWLLSRQGPARTGGGQGPQGGPLRT RLITGLFCAGLGGAWLALRAEKERLQQQKRTALRQAAGVQGD FHLDDRGRARCKADFRGQWVLMYFGFTHCPDICPDELEKLVQV VRQLKARPGLPPVQPVFITVDPERDDVEAMARYVQDFHPRLLGL

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			TSTKQVAQASHSYRVVYNAGPKDDEDDQYIVDHSIAIYLLNPDG LFTDYVGRSRSAEQISDSVRRHMAAFRSVLS
7025	232	832	ERNSTPIGNNENT* K\HSLDCLCFRGDWEQNTQQTQLQDNQEBECF KQVIRTCCKRPTENQHTVFNLHQRNLNTGDKLNEFFKLGKAFISG SDHTQHQLIHTSEKFCGDKCEGNTFLPDSEVIQYQTVHTVKRTY ECKKCGKSFSLRSSLTGHKRIHTGKPKFKCKDCGKAFRPHSQLS VHKRIHTGKSKSYECKCKCGKAPSCG
7026	328	1146	NPNPSIGDIDIKKAASMLDPAHKSHFVPTFSLVFLCFIFDG LHQALLSVGVSKRSTNTVVGNEENERGTPTYASRFKMPNPFIALEK SSVLRHCCDLLIGVAGSSDKICTSSLQVQRFRKAMMASIGRLS HGESADLLISCAESAIGWISSRPVWVGLMFTFLPGDFESPLHK LRKSS*LPRKHR*QPINAVRMFLDQCMDSIALRAIVSEIPVFR EKENNG*KGIGEIP*VWGCITLPPHYWGAVTNTNPKLSNSGKLLG QDEQHPHF
7027	43	954	GRRLQOQORPEDAEDGAEGBGKRGKAGWEGGYEIVKENKLFPH YQELKIVPEGEWQFMDALREPLPATLRTGYKSHAKEILHCL KNKYFKLELDEMDGQKVEVPQPLSWYPERLAWHNTLSRKILRK SPHLEKPHQFLVSETESGNISRQEAUSMIPPLILNVRPHKILD MCAAPGSKTTQLIEMLHADMNVPPEGFVIANVDNKRRCYLLVH QAKRLSSPCIMVNVHDASSIPRLQIDVDGRKEILFYDRILCDVP CSGDGTMRRNIDVKKWTTNLSLQLHGLQLRIATRGAEOL
7028	189	608	SRPPPEPEPGTMTVEKGSDDSSSEKGGVPGTPTSTQSLGRNP*IRNS KKMQSWYSMLSPTYKQRNEDFRKLFKSKLPEAERLIVDYSCALQR EILLQGRLYLSENWICFYSNIFRWETTISIQLKEVTCLKKEKTA KLIPNAIQ
7029	1343	40	VLESNTAKQATCTSSKLRHGTGQEKGRGPRCPSPGLAQLRLWG /PCPHAGRETGPASAPIPGS*GHOWHW*RKDGRGERSEGPSAL SPHSPLILNMQQAPTHVPGMGSGQRPRSSVVEQVGVGSQLSRE RWRA*RSLPQAAASERTEMTKERSF/RPCQGYDSSNWFTQPGKK TRKRSRRNTMVSRRGGGCLLYPLQSIIMPE*QLR*GAHASPPQTQ R*KGCGPRSPILTKASGTHIPTPFPGSIP/RPTDSCPGTDS\N AAPGQKRGHREA*QGPEPV/NGRVTTHLQGPAG*TKPLGS/RNW VPGPAEGEGQEGAGLEGR*PLKGCSTLTSPSPQLSIPMVGKKK PEGTTASFPF/RSCHE*RKPPSCPHAPALSPLPHELEPLPLPL PLPLPGAGT*HSARSGRPGQSETGSLCHNCHCPCPHCPKCSPPG T
7030	2	521	FVCFSAPEGSGQGGKRRVNMELSAVGERVFAAEALLKRRIRKGRM EYLVKWKGSQKYSTWRPEENILDARLLAAFEREREREMELYGPK KRGPKPTFLKAAQAKAKATYEFSDSARGIRIYPGRSPQDL ASTSRAREGLRN\RVCPQRAAPAAP\PRRGPSGPGPRPG*G PGLHP/PGCGPSKKGFPVASEQHQQHQLPRRGPSGPGPRPG
7031	960	59	HCSVPGAWEPRKPPAQICPOLTSRPHLSPPRSLSPGCGHSPGPG /CKPS/RHCDLHEGSPRTAALPCGKQPKHGVVECG/PCPCIA PRLTEPPALTVSPVGRAAPSGAL*PSGRACSAASHRLAPEAAL SAAAPRPSLGGGQNASGLPAASLPPQDSSQPHKTVPSPARSVPP LGAQARAAPRLWCPRALVSG*EASPEAVSVAAGPPVPGPTPT SGSTASHRRGC*SPR*TPAPRRDHGRSAAFEVLTAASAPQC ASQGGPRPTGAGRTPLGLPFSRGPAAASARPPFCRHPSI
7032	1393	2104	RRPQRTPEVPEPPVPPPPRASNSKSR*RNHLHLAPL*QSPLRK SRQIGTSSLPFGRSAGERPRPAATFCLSRGGSSPVFL*PSSSSIL EPWMKROFGRHLHSLF*WKSQKMNLSFLTPKLDTSLSMGWRYRQR LPLRLHTFLKKSQMASLADPLPTPAPLASSLPPPPGPPPLLPV PLA*LSRSGILVPPNPGSFLSC\PLGDH*GSSGEVGRSGSGSPPP HHCNVLPPPP*LLPPR
7033	689	815	RSRDCLSSTSNRARRSKSGPKRATPLDSGPGP*APPGPSSA

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			LMPSSCPWRTGALGPSAGSRALGRCCTSSVGPSSRWLRTSSP GCATRTWRTMRMEPRPLRSRMGESAPGIPAEPLSAAPSGPSAPS AAAPSAPTTPAAAGPNTL*SRRTAENWCWPPSCCCWGC*SWSA WDWRRPPLQVSPAPSSSCRASCCWLESIT*SSSTARSRATGAS SSSTCPTSRSDRGAATP\SPMGAPLLPCSVPLISREELQDPR NPSP*GVCSGSGHAGLALGKPPVACSV
7034	92	1942	EDTSSMPFRLLIPLGLLCALLPQHGGAPGPGSAPDPAHYRERV KAMFYHAYDSYLENAFFDELRLPLTCOGHDTWGSFSLTLIDALD TLT\TLFYFQILGNVSEFQRVVEVLQDSVDFDIDVNASVFPETNI RVVGGLLSAHLLSKKAGVEVEAGWPCSGPLLRMAEEAARKLLPA FQTPGMPYGTVNLHGVNPGETPVCTAGIGTFIVEFATLSSL TGDVPFEDVARVALMRLWESRSDIGLVGNHIDVLTGKWAQDAG IGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDW YLWVQMYKGTVMMPVQSLAEAYWPGQLSLIGDIDNAMRTFLNYY TVWKQFGGLPEFYNIPOGYTVKREGYPLRPELIESAMYLYRAT GDPTLLELGRDAVESIEKISKVECCGATIKDLRDHKLDMRMESF FLAETVKYLYLLFDPNTFHNNGSTFDVITPYGECILGAGGYI FNTEAHPIDPAALHCCQRLKKEQWEVEDLMREFYSLKRSRSKFKQ KNTVSSGPWEPPARPGLTSPENHDQARERKPAKQKVPLLSCPS QPFTSKLALLGQVFLDSS*PLDNFFIFIPLRLNYNKLLLAIIKK K
7035	92	1942	EDTSSMPFRLLIPLGLLCALLPQHGGAPGPGSAPDPAHYRERV KAMFYHAYDSYLENAFFDELRLPLTCOGHDTWGSFSLTLIDALD TLT\TLFYFQILGNVSEFQRVVEVLQDSVDFDIDVNASVFPETNI RVVGGLLSAHLLSKKAGVEVEAGWPCSGPLLRMAEEAARKLLPA FQTPGMPYGTVNLHGVNPGETPVCTAGIGTFIVEFATLSSL TGDVPFEDVARVALMRLWESRSDIGLVGNHIDVLTGKWAQDAG IGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDW YLWVQMYKGTVMMPVQSLAEAYWPGQLSLIGDIDNAMRTFLNYY TVWKQFGGLPEFYNIPOGYTVKREGYPLRPELIESAMYLYRAT GDPTLLELGRDAVESIEKISKVECCGATIKDLRDHKLDMRMESF FLAETVKYLYLLFDPNTFHNNGSTFDVITPYGECILGAGGYI FNTEAHPIDPAALHCCQRLKKEQWEVEDLMREFYSLKRSRSKFKQ KNTVSSGPWEPPARPGLTSPENHDQARERKPAKQKVPLLSCPS QPFTSKLALLGQVFLDSS*PLDNFFIFIPLRLNYNKLLLAIIKK K
7036	442	761	CLAPLFSCFQIINLHLAPSGRLRWANLRGPGRN*LPGEGPSIPT RNW*ERKAGCSQPC/PAQQHGRPPGVSPLPDRPHPTTLRPLPP PPPPPPPPRRPPRRNRPG
7037	442	761	CLAPLFSCFQIINLHLAPSGRLRWANLRGPGRN*LPGEGPSIPT RNW*ERKAGCSQPC/PAQQHGRPPGVSPLPDRPHPTTLRPLPP PPPPPPPPRRPPRRNRPG
7038	155	891	GAGAASDMSSGLRAADFPRWKRHISEQLRRRDRLQQAEEIIL QYNKLEKSDLHSLAQLQAEKHDPVNRHEISPGHDTWNDNQ LQEMAQLRIKHQBELTELHKKRGELAQ\RVIDLNNQMQRKDREM QMNRAKIAECLQITISDLETECLDLRTKLCDLERANQTLKDEYDA LQITFTALEGLRKTTEENQELVTRWMAKAEANRLNARB*KR LQEAASPAERACRSGSTSTRTG
7039	155	891	GAGAASDMSSGLRAADFPRWKRHISEQLRRRDRLQQAEEIIL QYNKLEKSDLHSLAQLQAEKHDPVNRHEISPGHDTWNDNQ LQEMAQLRIKHQBELTELHKKRGELAQ\RVIDLNNQMQRKDREM QMNRAKIAECLQITISDLETECLDLRTKLCDLERANQTLKDEYDA LQITFTALEGLRKTTEENQELVTRWMAKAEANRLNARB*KR LQEAASPAERACRSGSTSTRTG
7040	34	789	KITPPRRPHRCSSGHGSDNSSVLSGELPPAMGKTALFYHSGSS GYESVMRDSEATGSASSAQDSTSENSSSVGGRCRSLTKPKRSN

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7041	1	567	PGSQRRRLIPALSLDTSFVRKPPNSTGVRWVDGFLRSSPRLG EPFBIKVYEIDDERLQRRRGASKEAMCFNAKLKILEHRQQR IAEVRAKYEWLMKELEATKQYLMIDPNKWLSEFDLEQVWELDSLE YLEALECVTERLESRVNPFCKAHLMMITCFDIT
7042	7	345	SGRVAMGRRRAPAGGSLGRALMRHQTRSRSHRHTDSWLHTSEL NDGYDWGRMLNQSVTEQSSLDLFLATAELAGTEFVAEKLNIKFPV PARARTGLLSPFBSQRIKKLHEENKQFLCIPRRPNWNQNTTPBE LKQAEKDNFLEWRRQL\VRLEEBOKLILTPFERNLDFWRQLWV IERSDIVVQIVDA
7043	2	2170	PTHMAAALRADT\ISPLFPHIQGYLLLSASHG\ATSLHTKGAL PLETVTMTYVIPKSKYVLVKPDTQVPYSENLEDEFKRLAENSASN DDLLMAEVAISDYGDKLTLBLEREKY
7044	276	734	ARGMAARDSSEEDLVSYGTGLEPLEEGERPKKPIPLQDQTVRD EKGRIYKRFHGAFFSGGFSAGYFNTVGSKEGWTPTSPVSSRQNRAD KSVLGPEDFMDDEDLSEFGIAPKAVTTTDDFASKTKDRIREKAR QLAATAPIPGATLLDDLITPAKLSVGFELLRLKMGWKEGCGVGP RVKRRPRRQKPDPGVKIYGCALPPGSSSESGEGEDDDYLPDNVTF APKDVTVPVDFTPKDNVHGLAYKGLDPHQALPGTSGEHFNLFSGG SERAGDLCEIGLNKGRKLGISGQAFGVGALEEDDDIYATETLS KYDTVLKDEEPGDGLYGWTAAPRQYKNQKESKDLRYVVGKILDDGF SLASKPLSSKKIYPPPELPRDYRPVHYFRPMVAATSENSHLLQV LSESAGKATPDPGTHSKHQLNASKRABLLGETPIQGSATSULEF LSQDKERI KEMKQATDLKAAQLKARSLAQNAQSSRAQSPAAAGHCSSWNMALGGGTATLKASNFKPFKADPEKQKRYDEFLVHMKG QQKDALERCLDPSMTIEWERGERRDEFARAALLYASSHSTLSSRF THAKEEDSDQVEVPDQENDVGDQSAVKMKMPGKLTRDTPFEW HPDKLLFQ/RLVGLPRVKRDKYSVFNFLLPETASLPTTQASSE KVSQHRGPDKSRKPSRWDTSEKHEKEDSISEFLRLARSKAEPK QSSPLVNKEEHAPELSAN
7045	3	513	EVYLTDEFAKGRKVADLYELVQYAGNIIPRLYLLITVGVVYVKS FPQSRKDI LKDLVEMCRGVQHPRLGLFLRNYLLQCTRNILPDEG EPTDETTGDISDSMDPVLNFAEMNKLWVRMQHQHSRDRER ERERQRLRLVGTNLVRLSQV
7046	3	513	LGFKMEALS RAGQEMSLAALKQHDPPYITSIADLTGQVALYTPCP KANQWEKTDIEGTLFVYRRSASPYHGFTIVNRLNMHNLVFPVNK DLEFQLHEPFLLYRNASLSIYSIWFDKNDCHRIAKLMADVVEE ETRRSQQA/RSGQTESQPGQWLQRPQAHRRHPGDAEQSQG
7047	103	486	LGFKMEALS RAGQEMSLAALKQHDPPYITSIADLTGQVALYTPCP KANQWEKTDIEGTLFVYRRSASPYHGFTIVNRLNMHNLVFPVNK DLEFQLHEPFLLYRNASLSIYSIWFDKNDCHRIAKLMADVVEE ETRRSQQA/RSGQTESQPGQWLQRPQAHRRHPGDAEQSQG
7048	92	627	QMKIEKCSWSEGLTSIKGNCHNFPYTAISKDVTYKELKNLLNSKN IMLIDVREIWEILEYQKIPESINVPLDEVGELQMNPRDFKEKY NEVKPSKSDS/IVFSYLAGVRSKKALDTAISLGPHSYBER
7049	393	938	FFCLTLSSWDYRHATERVVISSPVFTMEDSGKTFSSSEEBANY WKDLAMTYKQRAENTQRELREFQEGSREYEALETQLQQIETRN RDLLSENNRLRMELETIKKFEVQHSSEGYRQISALEDDLAQTKA IKDQLQKYIRELEQANDLERAKRATDHGLSKTFE\QRLN\QAI EKKW
7050	393	938	KRTGSASYGGPPPGGLGGPATXASVAGRCSSVGKI PARRCYEDEL VPVFEAVGRIYELRLMDFGKNRGYAFVYCHKEAKRAVREL NNYEIRPGRLLGVCCSDNCRIFIGGI PKMKKREBIEBIAKVT EGVLDVIVYASAADKMKNRGLRLRGVREPPRGCHWLGRKLIAXW ASSLWG

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			VPVPEAVGRIYELRLMDFDGNRGYAFVVMYCHKHEAKRAVREL NNYEIRPGRLLGVCCSVDCNRLFIGGIPKMKKREIIEEIAKVT EGVLDVIVYASADKMKNRGLRLRGVREPPRGCHWLGRKLIAX ASSLWG
7051	119	816	KKMLARICDNAKKGREYALIGNYDSSMVYYQGVMMQIQRHCS VRDPAIKGKQVQRQELLEEYQVKSIVGTLESFKIDKPPDPFV SCQDEFFRDPAVWPPVPAEHRAPPQIRR/RQSRKSTSEERNGR SRSPGTCRPST\PISKSEK\STSROKDYRARGRDDKGRKNMQDG ASDGEMPKFDGAGYDKDLVEALERDVSRRNPSIHWDIADLEEA KLLREAGVLPMM
7052	467	715	SCPGRGKMSKLLNPREMTSRDYFFDSYAHFGTHEMLKDEVRTL TYRNSMYHNKHVFKDKVVLVDVSGGTGILSMFAARQGP
7053	467	715	SCPGRGKMSKLLNPREMTSRDYFFDSYAHFGTHEMLKDEVRTL TYRNSMYHNKHVFKDKVVLVDVSGGTGILSMFAARQGP
7054	1	1036	GTSQRSRETDARRRSAGAEPTARLPWDALEEWSPSCPELOPG RRCRWDMAMBYDEKLARFQAHLNPPNKGSGPRQHEQGPGEVVD VTPEALPELPPGEPEFRCEPVMDLQLSSEDFSRPVGLFLASD VQQLRQAIECKQVILELPEQSEKQKDAVVRLIHLRLKLQELKD PNEDEPNIRVLEHRFPYKEKSKSVKQTCDCNCTIIINGLIQTWYT CTGCYYRCHSKCLNLISKPCVSSKVSCHOAEYELNICPTGLDSQ DYRCAECRAPI/CS/DGVVPSEARQCDYTGQYYCSHCHWDLAV IPARVVHNDVFERKVSRCMSRYLALMVSRVLRRLREIN
7055	2	527	DSRRVSWRSWLANE/WGKHLCLFIWLSMNVLFWKTFLLYNQGP EYHYLHQMIG/ALCLSRASAVLNLCSLILLPMCRITLLAYLRG SQKVPSSRRTRRLDKSRTFHTTCGATICIFSGVHVAHLVNALN FSVNYSEDFVELNAARYRDEDPKLLFTTVPGLTGVCMEEVVLFL M
7056	2	527	DSRRVSWRSWLANE/WGKHLCLFIWLSMNVLFWKTFLLYNQGP EYHYLHQMIG/ALCLSRASAVLNLCSLILLPMCRITLLAYLRG SQKVPSSRRTRRLDKSRTFHTTCGATICIFSGVHVAHLVNALN FSVNYSEDFVELNAARYRDEDPKLLFTTVPGLTGVCMEEVVLFL M
7057	1368	431	GIYLVNKEIPRPTCIGDRQENDKENLNLENHRDQELHLASCOA SGEVPSQASLRGFFTEDEPGCFGEKENLPRAIQNIQDEGTGEQL SEQERISEKQLGQHLNPNHSGEMSTMWLEEKRETSQKQCPAPM AQKLPTRCCEGRTFYRNSQLIPHQRTHTGETYPQCTICKKAPLR SSDPVKHQHTTGEKPKCKDYCGKGFSDPSGLRHHKIHTEGKPK YKCPICEKSFQIRSNFNRHQVHTGEKPKYKCSHCGKSFWSSSL DKHQSHLGGKPPQ*PVTKLSFPISISQPSHKNTQLHQSEELCLR GYPC
7058	1	469	FSGFGAVPDALGCRMSDLRITEAFLYMDYLCFRALCKGPPPAR PEYDLVCIGLTGSGKTSLLSKLCSSEPDNVSTTGFSIKAVPPQ NAILNVKELGGADNIRKYWSRYQGSQGVIFVLDSASSEDLA ARN*SCQTQLLQHPQLCTLPFLILA
7059	1	1178	WPAPFRQPAAMADALLGTGPRRARGCLGAAGPTSSGRAARTPA APWARPSAWLECVVTFDLELQALBLVYPNDFRLTDKESKSI CYLSFPDSSHGCLGDTQFSFRMRQCGQSRSPWHADDRHNSRAP VALQREPAHYFGYVYFROVKDSSVKRGYFQKSLVLVSRLPFVRL FQALLSLIAPYFDKLAPCLEAVCSIDQWPAPAPGQTLNLPVM GVVQVRIPSRVKSESSPPKQPDQENLLPAPVVLASVHELDLF RCFRPVLTMTLWELMLLGEPLVLAPSPDVSSSEMVIALTSCL QBLRFCCDPRPYFTIHDSEFKRPTTRTQAPPNVVLGVNTPFFIK TLQHNPHILRVGPEPKMSGDLPEQVKLKKPKV*RPWDTKP
7060	90	1670	SVNLPPSLWPWEAMDSTKSEPLKGSPEARDGNIYKKLVNPSQ YRFEHLVTQMKWRLQGRGFAVYQIGVEDNGLLVGLAEEMRAS

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			LKTLHRMAEKVGADITVLREREVDYDSDMPRKITEVIVRKVPDN QQFLDLRVAVLGNVDSGKSTLLGVLTQCELDNGRGRARLNLFRIH LHEIQSGRTSSISFEILGPNKSGEVHNGINGTOWGQTLRMGW*** RT*DGGRVWRLFEIV*MNALRGL*TSSAPLRKSMGNQLN*IKNG VKIKRQGHPPGNLPGNSEGVRGRRH*GPWALGQVVNYSR TAERICSSSSKMITFIDLGHKKYLAHTTIFGLTSYCPDCALLV SANTGIAGTTREHLGLALALRVFPFIVVSKIDLCAKTTVERTVR QLERVLKQPGCHKVPMVLTSEDDAVTAAQQAQSPNVTPIFTLS SVSGESLDLLKVFNLPLPLTNSKEQBELMQQLTEFQVDEIYTV PEVGTVVGGTSLR*IDLLATLPTQPSPIYKTSWPKGGDPGI
7061	364	710	ARMPSPLGPPCLPMDPETTLEETARLRFRGFCYQEVAGPRE ALARLRELCCQWLQPEAHSKEQMLEMLVLEQFLGTLPPETIQAW RQQRPGSPREAAALVEQLQHP*ARMPSPLGPPCLPMDPETTLE EETARLRFRGFCYQEVAGPREALARLRELCCQWLQPEAHSKE QMLEMLVLEQFLGTLPPETIQAWVRGQRPSPREAAALVEQLQHP QGLLG
7062	71	744	AKACTNLRRLHLSYFFCTPKHKLKSSQKDKVRQFMACTQAGER TAIYCLTQNEWRLDEATDSFQNPDSLHRESMRNAVDDKKLERL YGRYKDPQDENKIGVDGIQQFCDLSDLPASISVLVIAWKFRPA TQCEFSRKEFLDGMTLGCDSMEKLLKALLPRLEQELKDTAKFKD FYQFTFTPAKNPGQKGLDL*MAGAYWKLVLGRFKFLYLWNTFL MEHH
7063	2	562	LRTVPDLPGRRFRAMRTGQRR*PELPDMNSLEQAEDLKAFERR LTEYIHLQPATGRWRMLLVSVCTATGAWNLIDPETQKVSF FTSLNHPFFFTISCITILIGLFPAGIHKRVVAPSIIAARCRTVLA EYNMSCDDTGKLLKPRPHVQ*QSSLIVMGLKIAFLRISDTAKS HKGFLLRLDM
7064	300	884	RDTSQDPSSTRRLCSTCCTGH*PAEPIASPHPSRGTCPPASSAS SRRTGCWTCPPESGHAQARRSRASASRWGARGAVRSASVAARG SSRAGRWLETGRRRGPPACAAAAGRLRGAP*AAPPTASVPAR CRCPAARTGAPAAATWLRRLSGLRAPALGRRRSPGPSPKSAAP PLTLPAGAGGGRANS
7065	1	555	ATTTHSARRSGRGAASAAASAAAGGRQKQPDRAWEGRRRTTGG RSQSEPKAPPQKRSAAAFASMAHSPVAVQVPGMNNIADPBEL FTKLERIGKSGFGEVFKGIDNRTQQVVAIKIIDLEAKDEIRDI QQEITVLSQCDSSYVTKYGSYLKSKLWIIMBYLGGGSLDLDL RAGPFDEFQ
7066	356	676	PGPQGFWRAREGGHPLDPADHPAPASLRSNVRAATMMQICDT YNQKHSLEFAMNRFIGAVNNMDQTMVPSLLRDVPLADPGLDND VGVEVGSGGCGLEERTPP
7067	152	973	KENITMATEIGSPRRFFHMPRFOHQAPROLFYKRPDFAQQQAMQ QLTFDGKMRKAVNRKTIDYNPSVIKYLENRIWQRDQDRMRAIQ PDAGYNDLVPPIGMLNPNMAVITKFEVTSNKVKCPVFVVRW TPBGRRLVTGASSGFTLWNLTFNFETILQAHDSPVRAMTWSH NDMMMLTADHGGYVKYQSNMNNVMFOAKKEAIRARFIHNTIP FSVVPVIMVKLPKLCILGABMHOLCQFLGNFLHPINTIFFVFT HSPFCWAPP
7068	222	816	DTMKYVLLLFALCSAKPFFSPSHIALKNMMLKDMEDTDDDDDD DDDDDDDDDDNSLFPTRPRSHFFPDLFPMPFCQCQYSRV VHCSDLGLTSVPTNIPFDTRMLDLQNNKIKEIKENDFKGLTSLY GLILNNKLTKEHPKAFITTKKLRLYLHNLSEIPLNLPKSL AELRIHENKVKIKQDTFKKK
7069	1147	1765	FRDHRRYFYVNEQSGESQWEPFDGEEEBESQAQENRDETLAKQ TLKDKTGDNSSTESSETSGSLCKESFSGQVSSSSIMPLTPFW TLQSNVFLQPLPLEMPPPPPPPPPPPPPPPPPPPPPPPPPPPPP

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			EKTKGRKDKAKKSKTKMPSLVKKWQSIQRELDEEDNSSSSSEED RVSTAQKRIEWWKQQQLVSGMAERNANFEA
7070	1	547	DGTMEDSEAVQRTALIEQRLAQEEENEKLRGDARQKLPMDLLV LEDEKHHGAQSAALQKVGQERVRKTSLDLRREIDVGGTQNLIELRKKRKQKKRDLAASHEPPPEPEITGPVDETFKAAVEGK MKVIEKFLADGGSADTCDQFRRTALHRASLEGHMEILEKLLDNG ATVDFQ
7071	2	921	ARGTLRALETAKKVGKVGANGQKAAGPSADSVTENKIGSPPKTP VSNVAATSAGPSNVGTSLNSVFOKSSPFLTRVPAYPPHSENIQY FQDPRQTQIPFEVPPQYPTGYPPPTVPAGVAPCVPRFVRSNNV PESSLPASMPYADHYSTFSRDRMNSSPYQPPPPQYGPVPPV PSQMYAPVYDSRRIRWPPMYQRDDIIRNSLPPMDVMHSSVYQT SLRERYNSLDGYYSVACQPPSEPRTTVPLPREPCGHLKTSCEBQ IRRKPDQWQYHTQKAPLVSSSTLPVATQSPPTLNRGECS
7072	2	921	ARGTLRALETAKKVGKVGANGQKAAGPSADSVTENKIGSPPKTP VSNVAATSAGPSNVGTSLNSVFOKSSPFLTRVPAYPPHSENIQY FQDPRQTQIPFEVPPQYPTGYPPPTVPAGVAPCVPRFVRSNNV PESSLPASMPYADHYSTFSRDRMNSSPYQPPPPQYGPVPPV PSQMYAPVYDSRRIRWPPMYQRDDIIRNSLPPMDVMHSSVYQT SLRERYNSLDGYYSVACQPPSEPRTTVPLPREPCGHLKTSCEBQ IRRKPDQWQYHTQKAPLVSSSTLPVATQSPPTLNRGECS
7073	50	504	LAHGSFGVSDFFPAPAAFAHTLTFSGSLSPQFRKPLGRAPAMP LVRYRKVILGYRCVGTSLAHQFVEGEFSEBGYDPTVENTYSKI VTLGKDFEHLHLVDTAGQDEYSILPYSPIGVHGYVLVYSVTSLS HSFQVIESLYQKLLHEGHEK
7074	263	1003	VCPVLCTROEPGHSSLVTFYGPKPTRRKEFLGHCTAAGKMNIS VDETNYAELVLDVGRVTIGENSRKMKDKLKKQNERVSRAM CALLNSGGGVIAEINEDYSYTKDGIOLDLENSFSNILLFVPE YLDFMQNGNYFLIFVKSNSLNTSGLRITTLSSNLYKRDITSKV MNATAALEFLKDMKKTRGRILYLRPELLAKRPRVDIQENNMKAL AGVFFDRTTELDREKELTFTESTHVEI
7075	598	1005	NYINFFFRKEYPPHVQKVEINPVLRLSLQGVIRIMKKTSESESQ VPEPIKKRVQQRKHCSTYQPTPLSPASKKCLTHLEDLQRNCRQ AITLNBSTGPIRLRTSIHQNSGGQKSQNTGLTTKKFYGNVNEKVP IDII
7076	279	1049	LQSESSNAEAGNEQRHEDQSRKRGWSKGRKRRKPLRDSNAPK SPLTGYVRFMNERREQLRKRPEVFFPEITRMLGNEWSKLPPEE KQRYLDEADRDKKRYMKELEQYQKTEAYKVP SRKTQDRQKGS RQDAARQATHDEKETEVEKERSVFDIPIFTFEEFLNHSKAREBEL RQLRKSNNMEFEERNAALQKHVESMRTAVEKLEVDVIQERSRNTV LQQHLETLRQVLTSSPASMPLEPCGETPTVDTIDSYM
7077	3	1119	SSMGSSNSEINGLALRKTDKYGFLGGSQYSGSLKSSIPVDVARQR ELKWLDMFSNWDKWLRRFPQKVKLRCKGIPSSLRKAWQYLSN SKELLEQNPRKFEELERAPGDPKWLVDIEKDLHRQFPFHEMFAA RGGHGQODLYRILKAYTIYRPDEGYCQAQAPVAAVLLMHMPARQ APWCLVQICDKYLPGYYSAGLEAIQLDGEIFFALLRRASPLAHR HLRRQRIDPVLYMTWFMCI FARTLPWASVLRVWDMFPCEGVKI IFRVALVLLRHTLGSVEKLRSCQGMETMBQLRNLPPQCMQEDF LVHEVTNLPVTALIERENAAQLKKWRETRGELQYRPSRRLHGS RAIHEERRRQPPPLGPSSS
7078	483	767	FGQRMAGEQKPSNNLEQFILLAKGTSGSALTALISQVLEAPG VYVFGELLELANVQELAEAGANAAYLQLNLFPAYGTYPDYIANKE SLPELY
7079	2	376	SVVEFKRPKEPSGSDGESDGPIDVGQEQLSQMARPLSTPSSSQ MQARKKRRGII EKRRDRINSSSELRLRLVPTAFKQGSSEKLEK

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			AEVLQMTVDHLKMLHATGGTGTHALLFQASFIQQIF
7080	200	595	VQLPLRAPCLSLSCRDHSGGNRDLRRHRDCRVYGSPODGIPT LTHPLCHQDVVSVGRQLQIRALATPGHTQGHVLLDGEFPYKGPS CLFSGDLLFLSGCGEFPKRREELGEGGTEVRAATVPWRALPK
7081	213	506	AVTEEMILNLSLSCYHNKLLAPMVRVGTLPMLRLALDYGADI VYCEELIDLKMIQCKRVVNEVLSTVDFVAPDDRVRVFTCEREQN RVVFQMGTS
7082	3	1137	APSRNTMLMAMCRGPVLLCLRQGLGTNSFLHGLGQRPPEGARSL CCRSSPRDLRDGEREHEAAQRKAPGAESCPSLPLSISDIGTGCL SSLENLRPLTLRRESSPRELEDSSGQGRCGPTHQGSDEPSMLS QAQSATEVEERHVSPPCSTSRERPPQAGRLILAEETGEGTKFKK LFRILNNFGLNLSNWGAFFGKI V GKFPQGILRSSFGKQYMLRRP ALEDYVVLKRGTAITFPKIDNIMLSMMDINPGDITVLEAGSGSG GMSLFLSKAVGSQGRVISEFVRKDHDHLAKKNYKHWRD SWKLSH VEEWPNDVDFIHKDISGATEDIKSLTFDAVALDMLNPHVITLPVF YPHLKHGGVCPVYVNNITQVIRLLD
7083	115	541	RSNAVOLTMEYAMKSLSLLYPKSLSRHVSVRTSVVTQQLLSEP SPKAPRARPCRVSTADRSVRKGMAYSLEDLLKVRDTLMLADK PPFLVLEEDGTTVETEYFQALAGDTVFMVLQKQKQPPSPSEQG TRHPLSLSHK
7084	3	522	NSVSVSSQSRFLASVPGTGVQSRSAADMAASTAGKQRI PKVAK VKNKAPAEVQITABQLLREAKKRELEILPPPPQKQITDEEELND YKLRKRKTFEDNIRKNRTVISNWKYQWEESELEIQARSIYE RALDVYRNITLWLKYAEMEMKNRQVNHARNIWDRAITTL
7085	243	1499	RQLARLRRRGWRSPPGGAPMAHITINQYLQVVEAIDSRDGASC AELVSFKHPHVANPRLQMASPBEKCCQVLEPPYDEMFAHLRCT YAVGNHDFIEAYKQQTIVIQSPFLRAFQAHKEENWALPVMYAVL DLRVFANNADQQLVKKGSKVGDMLKAEALLMSCFRVCASDTR AGIEDSKKWMGLFLVNLQFLKIYFKINKLHLCKPLIRAISSNLK DDYSTAQRVTYKYVGRKAMFDSDFKQAEYLSFAFEHCHRSSQ KNKRMILYLLPVKMLLGHMPTVELLKKYHLMQPAEVTAVSEG NLLLHEALAKHEAFFIRCGIFLILEKLIITYRNLFKKVYLLL KTHQLSLDAFLVALKEMQVEDVDIDEVQCLANLIYMGHVKGYI SHQKQLVVSQNPFPPLSTGC
7086	256	525	ILAARMGKQNSKLRPEVMODLLESTDFTEHEIQEWYKGLRDCP SGHLSMEBFKKIYGNFFPYGDASKFAEHVFTFDANGDGTIDFR EF
7087	166	723	LSGSSAGKVAAPCVPPSNHELVPITTENAPKNVVDKGEAERGG NTRKSLDNGSTRVTPSVQPHLQPIRNMVSVRTMEDSCLEDLVY VTERIIAVSFPSTANEENFRSNLREVAQMLKSKHGGNYLLFNLS ERRPDIITKLHAKVLEFGWPDLPALKEKICSICKAMDTWLNAP HRCRVLHNKG
7088	104	759	GTSAAAPSSLLEMAEITETGRLYSSVGLVYMFNLIVGTGALT MPKAFATAGLVLVLLVFLGFMSPMTTTFVIEAMAAANAQLHW KMRNLKEEEDDDSTASDSVLIRDNYERAERKRPILSVQRRGS PNPFEITDRVEMGOMASMPFNKVGUNLFYFCIIVLYGDLAIYA AAVPFSLMQVTCSATGNDSCGVADTKYNDITDRCWGPLRRVD
7089	33	1775	SVCWEDRYLKARMEESPLSRAPSRGGVNFVARTYIIPNTKVEC HYTLEPGTSPASDWIGIFKVEAACVRDYHTFWSSVPESTTDG SPIHTSVQFQASYLPKPGAQLYQFRYVNRQGVCGQSPFPQFRE PRPMDELVTLEADGSSDILLVVPKATVQLQNLDESQQRNDLM QLKLQLEGQVTELRSRVQELERALARQEBTELMEQYKGISRS HGRITEBRDILSRQGDHVARILELDDIQTISBKVLTKVEBLD RLRDTVKALTRQEBKLLGQLKEVQADKEQSEAEQLQVAQENHHL NLDLKEAKSWQEQSAQAQRLKDKVAQMKDTLQQAQQRVABLEP

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			LKEQLRGAGELAAASSQKATLLGEELASAAAARDRTIAELHRSR LEVAEVNGKLAELGLHLKEEKQWSKERAGLLQSVAEKDKILK LSAEILRLKAVQEBRTQNVFKTELAREKDSLVQLSESKREB TELSALRVLQKEKEQLQEEKQELLEVMRKLEARLEKVADEKWN EDATTEDEEAAVGLSCPAALTDSEDESPEDMRLEHMAFVSVETQ ASLLGLLE
7090	33	1775	SVCWEDRYLKARMEESPLSRAPSRGGVNFVARTYIPNTKVCB HYTLPPGTMPSASDWIGIFKVEAACVRDYHTFVNSSVPESTTDG SPIHTSVQFQASYLPKPGAQLYQFRYVNRQGVCGQSPFPQFRB PRPMDRLVTLBEADGSDILLVVPKATVLQNQLDESQQRNDLM QLKLQLEGQVTELSRVQELERALARATARQEHTELMQYKGISRS HGEITEERDILSRQQGDHVARILELEDDIQTISEKVLTKVEBLD RLRDTVKALTREQEKLGLQKEVQADKEQSEARLQVAQENHHL NLDLKEAKSWQEEQSAQAQRLKDKVAKMDTLGQAQQRVALEP LKEQLRGAGELAAASSQKATLLGEELASAAAARDRTIAELHRSR LEVAEVNGKLAELGLHLKEEKQWSKERAGLLQSVAEKDKILK LSAEILRLKAVQEBRTQNVFKTELAREKDSLVQLSESKREL TELSALRVLQKEKEQLQEEKQELLEVMRKLEARLEKVADEKWN EDATTEDEEAAVGLSCPAALTDSEDESPEDMRLEHMAFVSVETQ ASLLGLLE
7091	186	1076	EOMLTREHRCGRSEBQELEPWPSFKKARSGRWLRNGFKRMKEP EPPADSGQSLVPVYIYSPYVSMCDLAKIPKRASMVHSLIEAY ALHKQMRIVKPKVASMEEMATFHTDAYLQHLQKVSQEGDDHDP SIEYGLGYDCPATEGIFDYAAAIGGATITAAQCLIDGMCKVAIN WSGGWHHAKKDEASGFCYLNDAVLGLRLRLRRKFERILYVDLDH HCDGVEDAFSPFTSKVMTVSLHKFSPGFPFGTGDVSDVGLGKGRY YSVNPVIQDGIQDEKYQICERYEPAPNPGL
7092	522	809	KQGINEDQERSQKPRLEGCEPISKRMKLIKQKQWEEQRELR KQKRKEKRKKLERQCCMEPNSDGHRKRVRRDVVHSTLRLLI DCSFDXLM
7093	454	655	NFGVSGVELAQASVMVRMSFVIAACQLVLGLLMTSLTESSIONS ECPQLCVCEIRPWFTPQSTYREA
7094	2	508	FVRSMHWGVGFASSRCPVVDLSWNQSSIFPGWAGSEBFPFVG DIIFAPLQDYGGIMAGLSDPWKKTLTYLTGGALLAAAYLLHR LLVIRKQEQEIDSKDAIILHQFARPNNGVPSLSPPCLKMETYLRM ADLEYQNYFGKLSAQGKMPWIEYNHEKVSGETEPII
7095	1	411	IASSLPKMASLLQSDRVLYLVQGEKKVRAPLSQLYFCRYCSELR SLRCVSHVEDSHYCPSCLENMPSARAKLKNRCANCFDCPCGMH TLSTRATSISTQLPDDPAKTTMKAYYLACGFCRWTSRDVGMAD KSVGE
7096	224	2067	ETRS LAVQEKPSQAGRRSSRISPAGALPLTRFLIQEILLNFC SAMSPADAPAPASISLFDLSADAPVFGLSLVSHAPGEALAR APRTSCSGSGERESPERKLLQGPMDISKLFCTCDQTPQNHQB QREHYKLDWHRFNLKQRLKDKPLLSALDFEQSSTGDLSSISGS EDSDSASEEDLQTLDRERATFEKLSRPPGFYPHRVLFQNAQQQF LYAYRCVLGPHQDPPREAEILLQNLQSKGPRDCVVLMAAGHPA GAIFQGREVVTHKTFHRYTVRAKRTAQGLRDARGGPPSHSAGAN LRRYNEATLYKDVRLIAGPSWAKALEBAGTILLRAPRSORSLE FGGKGAFLQRGDPRLWDIPLATRRPTFQELQRVLHKLTTLHVYE EDPREAVRLHSPQTHWKTVREERKKPTEBIEIRKICRDEKEALGO NEESPQKQSGSGEGDGFQVELELVELTVGTLDLCESEVLPRRR RKRNKKEKSRDQEAHAHTLLQQTQREEPSTQSSQAVAPLGL LDEAKAPGQPELWALLAACRAGDVGVLLQLLAPSPADPRVLSL LSAPLGGSGFTLLHAAAAGRGSVVRLLEAGADPTVQCQDH
7097	256	1228	IRTKSAATWEAWPQCGREGSRITTEPCANAGSRQLQTERISS FLAAQGDQAFHSGLETNNSNELPLRVGLKVAQGSPLMGQVSA

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			SNSFSRLHCRNANEDWMSALCPRLWDVPLHHLSTPGSHDTMYC LNKKSPISEESRLQLLNKALPCITRPVVLKNSVTQALDVTEQ LDAGVRYLDLRIAHMLEGSEKNLHFVHMVYTTALVEDTLTETSE WLERHPREVVLACRNFEGLSDELHEVLVACIKNIFGDMLCPRG EVPTLRQLWSRGQQVIVSYEDRSSLRHRLWPGVPYWNNGNRVK TRALIRYLETMKSCGR
7098	82	956	SSPLKRCRKVLGCWGIPEQSLFSTLEBPDKEDNYCVMRLQT EARSGFNAPNRPVNICRMTAVDGRGSSRETCHFHPSLEA LVLLLDQWQPGGIGICTSFLGISWALLDYHRAIRTCCLPSKPLIG LGSSVIYFLWNLNLLWPRVLAVALFSAFPYVALHFLGLNLVL LLWVWLQGTDFMPDPSSEWLYRVTATILYFSWFNVABGRTRGR ATIHFAFLSDSILLVATWVTHSSWLPSCIPLQLWLPVGCPCFP LGLALRLVYHHLWLPSCCCKPDPDQVD
7099	992	210	LFRLAPGFLRLSLARQYHQIWAFFPLPSGATATNPAASRSLSA ARSLPRSPARPCPNDAALGGEHDFRGQGVRAQRFRSEBPGPGAD GAVLEVHVPIQIGAGVSLPGILAAKCGAEVILSDSSSLPHCLEVC RQSCQNNLPHLQVVLGTWGHISWDILALPPDILLASDVFPFR EDFEDILATYFLMHKNPKVQLWSTYQVRSADWSLEALLYKNDM KCVHIPLESDADKEDIAESTLPGRHTVEMLVISFAKDSL
7100	205	671	ANGCFWEAAPGSEVSLPLWVPTASHSKTALGIGSAPPHLSVL FLSPFPQGLDPLEAFPVFKYDRNGLNVSIECKRVSGLEPATV DMAFDLTKTNMQTMYEQSEWGWKDKREEMTDDRAWYLIANEN SSVPEAFSHERFDVERGDEVLYM
7101	2	503	WRGGPRRAKRLAGGAVGWVLLVRGVHVSVRAGGGRPPRAADMKKD VRILLVGEPRVGKTSILMSLVSEEPPEVPPRAEITIPADVTP ERVPTTHVDYSEAEQSDQLHQEISQANVICIVYAVNNKHSIDK VTSRWIPLINERTDKDSRLPLILGKNKSDLVEYSR
7102	2	503	WRGGPRRAKRLAGGAVGWVLLVRGVHVSVRAGGGRPPRAADMKKD VRILLVGEPRVGKTSILMSLVSEEPPEVPPRAEITIPADVTP ERVPTTHVDYSEAEQSDQLHQEISQANVICIVYAVNNKHSIDK VTSRWIPLINERTDKDSRLPLILGKNKSDLVEYSR
7103	119	438	GSQSSVAVNIRSGTDESSMDLMNGQASSVNIAATASEKSSSES LSDKGSSELKKSFDAAVVDVLKVTPEYAGQITLMDVVPVKAIQP DELSSCGWNKKEYSSAP
7104	1670	795	RLWEHRSVSAGASGWLSSPGCLLHPSLPEBERRVDILINNAGV MRCPHWITTEGDFEMQPGVNHLCRAWAGAAPWQAAILPRPPKVL GP*V*VKSDLFIILNPGHFLTNLLLDKLKASAPSRINLSSLA HVAGHIDFDLNLWQTRKYNKKAAYCQS\KLATVLFTELSSRLQ GSGVTVNALHPGVARTELGRHTGIHGSTFLQHNN\WAHLLAAS KSPRSWPAPAQHNTLAVAEELA\VISGKYFDGLKQKAPAPEARD BEVARRLWASARLVGLEAPSVRBQPLPR
7105	765	143	GQMCRRPSPKSTSCLSMTCDLP/RGLQDPQCLALFRVAVDKHQA LLKAAMSGQGVDRHLFALYIVSRFLHLQSPFLTQVHSEBQWLST SQIPVQQMHLFDVHNPDPYVSSGGGFGPADDHGYGVSYIFMGDG MITFHTSSKKSSTKTDSHRLGQHIEDALLDVASLFPAGQHFKRR FRGCKENSRRHRCFLSRQTCASKASMTSTDF
7106	14	1064	GLQAGHPHPRASRIPEADTH\YSKLQRAFDSIVNKHKRMFGT YFRVGFPGSKFGDLDEQFVYKEPAITKLPEISHRLEAFYGCQF GAEFVEVILKDSPTVDKTKLDPNKAYIQITFVEPYFDEYEMKDRV TYFEKNFNLRRFMYTTPTLEGRPRGELHEQYRRNTVLTTHAF PYIKTRISVIQKEEFVLTPIEVAIEDMKKKTQLAVAINQEPDP AKMLQMVLGQSVGATVNOGLEVAQVPLAEIPADPKLYRHENKL RLCPKEFIMRCGEAVEKNKRLITADOREYQOBLKQNYNKLKENL RPMIERKIPELYKPIFRVESQKRDSFHRSSFRKCBTQLSQGS
7107	1145	591	*I*WLQTKKKK

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7108	1	942	VKVALLLTNLEQPRTESEWENSFTLKMFLQFVNLSSTFYIAP FLGRFTGHPGAYLRLINRWLEBCHPSGCLIDLQMGIIMVLK QTWNNFMELGYPLIQNWTRRKVRQEHGPERKISFPQWEKDYNL QPMNAYGLFDEYLEMILQPGFTTIFVAAFPLAPLLALLNNITRI RLDAYKFVTQWRPLASRAKDIGIWWGILEGIGILSVITNAFVI AITSDFIPLRVYAYKYGPCAGQGEAGQKCMVGYVNASLSVFRIS DFNRSPEPSDGESEFSGTPLKYCRYRDRDPHSLVPYGYTLQF NHVLAW
7109	964	102	WDQRKNSLVPGAHGAQEEPEWKKESLGAAQEALSTQLQPK E TQPPFKSEQVYLHFLSVVTEGDGPEPKDKGSLPQPPITEVESQVF SEKLATDTSTFRATSEGTLELQQRNPKAERLRWSPAQESFRQM VVIHKEIPTGKKDHECSECGKTFIYNHLVHVHQRVHSGEKKPYK SDCGKTPQSSNLGQHRIHTGEKPFECNCGKAFRNGAHLVQH QRIHSGEKPYECNECGKAFSQSSYLSQHRRHISGEKPFICKECG KAYGWCSELIRHRRVHARKEPSH
7110	96	697	RLDNFSGFLVEVTKEERHIVKPLYDRYRLVKQMLTRASITPVLG SPSTKRRGQMLQPIIEGETAHFFEEIKKEEDGVLNLSSELGDM L KTAQQVQSSLNKSESDVERNQEKALDLRLSSSRAASMPLELEQ LWKARAEKKKLKRLTREFEFAFYQQNGRNAQKEDRVFVLEEYRE YKKIKAKRLLEVLISKQDSSKSI
7111	2	414	GSGLYRGFTPGGQCIWKPNMPPDHERNFGFTQFALELNELTAE LKRSLSPTDTRLRPDORYLEBGNIAAEAQKRRIEQLQRDRKRV MEENNIHVQARFRRTQDSSGKEWVNTNTYWRLEAPGYGNMD GAVLW
7112	103	495	PRCFPVADRGRLLIGGLPDVVTIMEGKTLNLTCTVFGNPDPEVIW FKNDQDIQLSEHFSVKVBAQKYVSMITKGVTSBDSGKYSINIKN KYGGEKIDVTVSVYKHGKIPDMAPPQAKPKLIPASASAAGQ
7113	1	824	KCLQAWHKAAPSSLAFTRWCSREERAEGGGLNHRSTTRDPKPPG LRPSQRPMDDKKKRSKPKCLAQPAQAGTLRRVPVPTSHSGSL ALGLPHLPSPKQRAKFRVKGKCRFVLGGGSGSAGTLPLOHSP LTEVTDVYEMEGGLNLLNDFHSGRLQAFGKECSFEQLEHVREM QEKARLHFSLDVCGEEEDDEEEDGVTBGLPBEQKKTIMADRNL DQLLSNLGSLGALVPGGMRGEGGTYSQSHSWALGEKVGHVHSGK SSGPLNLPRR
7114	3	1492	VWEVDEQIDHYKESQDKFLWQAFIGKETLKDSESGQECKICRKI IYLNDFVSVKQRLPKYYSWERCSEKHLNFLGQNRSYVRKDDG CKAYWKVCLHYNLHKAQPAERFPQPNQKGKALHQQALRKSQRS QTGEKLYKCTECGVFIQKANLVVHQRTHTGKPYECCECAKAF SQKSTLIAHQRTHTGKPYECSECGKTFIQKSTLIKHQRTHTGE KPFVCDKCPKAFKSSYHLIRHEKTHIRQAFYKGIKCTTSSLIYQ RIHTSEKPPQCEHGRASDEKPSPTKHWRTHTKENIYECSSKCGKS FRGKSHLSVHQRIHTGKPYECSCGKTPSGKSHLSVHHRTHTG EKPYECRRCGKAFGEKSTLIVHQMHTGKPYKNECGKAFSEK SPLIKHQRIHTGERPYECTDCKAFSRKSTLIKHQRIHTGKPY KCSECGKAFSVKSTLIVHHRTHTGKPYECRCGKAFSGKSTLI KHQRTHTGDKNL
7115	1	947	NAAHGYNWGLWCMYIIPPODWLDRGDESAPITPAMIGCSFVVD REYFGDIGLLDPGMEVYGGENVKLGMRVWQCGGSMEVLPCSRVA HIERTRKPYNNIDYAKRNALRAAEVWDDFKSHVYMAWNIPI M SNPGVDFGDVSERLALRQRLKCRSFKWYLENVYPENRVYNNLT L YGEVRNSKASAYCLDQGAEDGDRAILYPCHGMSSQLVRYSDGL LQLGPLGSTAFLPDSKCLVDDGTGRMPTLKKCEDVARPTORLWD FTQSGPIVSRATGRCLEVEMSKDANFGLRLVQRCSGQKWMIRN NIKHARRH
7116	866	95	RVRMRRAEVIIEKLSMKSWAKFRFGEFPGKYPNIDPETDPYVT PGSVINNLSTINTVREVDHLDRNSGSSSLNTTLPSTSAWSSIR

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			ASNYNVPLSSTAQSTARNSDSKLTWSPGSVTNTSLAHELWKP LPPKNITAPSRPPPGLTGQKPPPLSTWDNSPLRIGGGWGNDSARY TPGSSWGESSSGRITNWLVLKNTLPQIDGSTLTLCMQHGPLIT FHLNLFPHGNALVRYSSKEEVVKAQKSLHISDLFLTL
7117	695	1261	LLISTPGGCHPPPSSIRFTYTGAWGKALPAPHPMPCAPGALPQGA FVSQAARAIPLLPQSOAAQAGLSQPARACGALCSLPWPLRNWG SPILRLPGGLRTPTNDRKTRTRSAMACWARAQWDTLGLPLKLSHR GKVCRLRHPRPTGVRGGPGAAGRQGGMGTRRRGTFTSGARDPGLL RVKHRCCQPTGHLP
7118	49	1863	PHCEPNPGAGAMVLLHVLFEHAVGYALLALKEVEEISLLQPQVE ESVLNLGKFHSIVRLVAFPCPFASSQVALENANAVSEGVVHEDLR LLETHLPSKKKKVLLGVGDPKIGAAIQEELGYNCQTGGVIAEI LRGVRLHFNHVKGLTDL SACKAQLGLGHSYSRAKVKFNVRVD NMIIQSISLLDQLDKDINTFSMRVREWYGYHPPPELVKIINDNAT YCRLAQFIGNRRRLNEDKLEKLEELTMDGAKAKAILDASRSSMG MDISALDLINIESFSSRVVSLSEYRQSLHTYLRSKMSQVAPSL ALIGEAVGARLIAHAGSLTNLAKYPASTVQILGAEKALFRALK RGNTPKYGLIFHSTFIGRAAAKNKGRISRYLANKCSIASRIDCF SEVPTSVFGKLRBQVEERLSFYETGRI PRKNLDVMKHAMVQAE EAAAEITRKLEKQEKRLKKEKRLAALALASSENSSTPECE EMSEKPKKKKKQKQEVPOENG MEDPSISFSKPKKKKSFKEEL MSSDLRETAGSTSIPKRKKSTPKEETVNDPERAGHRSGSKKKRK FSKEEPVSSGPPEAAGKSSSKKKKKFKHAKSQED
7119	49	1863	PHCEPNPGAGAMVLLHVLFEHAVGYALLALKEVEEISLLQPQVE ESVLNLGKFHSIVRLVAFPCPFASSQVALENANAVSEGVVHEDLR LLETHLPSKKKKVLLGVGDPKIGAAIQEELGYNCQTGGVIAEI LRGVRLHFNHVKGLTDL SACKAQLGLGHSYSRAKVKFNVRVD NMIIQSISLLDQLDKDINTFSMRVREWYGYHPPPELVKIINDNAT YCRLAQFIGNRRRLNEDKLEKLEELTMDGAKAKAILDASRSSMG MDISALDLINIESFSSRVVSLSEYRQSLHTYLRSKMSQVAPSL ALIGEAVGARLIAHAGSLTNLAKYPASTVQILGAEKALFRALK RGNTPKYGLIFHSTFIGRAAAKNKGRISRYLANKCSIASRIDCF SEVPTSVFGKLRBQVEERLSFYETGRI PRKNLDVMKHAMVQAE EAAAEITRKLEKQEKRLKKEKRLAALALASSENSSTPECE EMSEKPKKKKKQKQEVPOENG MEDPSISFSKPKKKKSFKEEL MSSDLRETAGSTSIPKRKKSTPKEETVNDPERAGHRSGSKKKRK FSKEEPVSSGPPEAAGKSSSKKKKKFKHAKSQED
7120	1991	64	QLGTRRCLRGDKVTNAMQDFLVTLNLEPRFYEPQTANLSVVPKDS NSTTFLIPVLSPGTDPAADLYKFAEEMKFSKKLSAISLGQGQGP RAEAMRSSIBRGKWWFFQONCHLAPSWMPALERLIEHINPKVH RDFRLWLTSLPSNKFVPSILQNGSKMTIEPPRGVRANLLKSYSS LGEDFLNSCHKVMEFKSLLSLCLPHGNALERRKFGPLGNIPY EFTDGDRLRICISQLKMFLEDDIPYKVLKYTAGIINYGGRTVD DWDRCIMNILEDFYNPDVLSPEHSYSASGIYHQIPPTYDLHG LSYIKSLPLNDMPFIFGLHDNANITFAQNETPALLGTIIQLQPK SSSAGSQGREBIVEDVTQNIILKVPEPINLQWMAKYPVLYEES MNTVLVQEVIRYNRLQVITQTLQDLLKALKGLVVMSSQLRIMA ASLYNNTVPPELWSAKAYPSLKLSSWMDLLQRLDFLQAWIQDG IPAVFWISGFFFPQAFLTGTLQNFARKFVLSIDTISDFKVMFE APSELTQRPPQVGCYIHGLFLEGARWDPEAFQLAESQPKELYTEM AVIWLPTPNRKAQDDQDFYLCPIYKTLTRAGTLSTTGHSTNYVI AVEIPTHQPQRHWIKRGVALICALDY
7121	2	546	RPLRPVVLISLGSVMGLMTYGRROFQSLDTMRRLIPPFREASAK LTLVDADAFAFTAYLEAMRLPKNTPEEKDRRTAALQEGELRAV SVPLTLAETVASLWPAQLARCGNLACRSDLQVAAKALEMGVF GAYFNVLINLRDITDEAFKQDTHHRVSSLLQEAQTQAAVLDCCL

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7122	2	546	ETRQE RPLRPWVLSLGSVMGLMTYGRQQFQSLDTTMRRLIPPPREASAK LTTLVDADEAFAAYLEAMRLPKNTPEKDRRTAALQEGLRRAV SVPLTAEATVSLWPAQLQELARCGNLACRDLQVAAKALEMGVP GAYFNVLLNLRDITDBAFKDQIHHRVSSLLQRAKTQAAVLVDCLETRQE
7123	1	1092	KPAVPEARSAGTSEAGRSGAREVSCGVSVDGGAAMRLTPRALCS AAQAAMWRENFPLCGRDVARWPPGHMAKGLKMQSSLLKLVDCITE VHDARIPLSGRNPLPQETLGLKPHLLVLNKMADLADTEQQKIMQ HLEGEGLKNVIFTNCVKDENVKQIIPMVTELGSRSHRYHRKENL BYCINVIGVFNWVGKSSLINSLRRQHLRKGKATRVGGEFGITRAV MSKIQVSERPMLFLLDTPGVLPRIESVETGLKALCGTVLDHL VGBETMADYLLYTLNKHQRFGYVQHYGLSACDNVERVLSVAV KLKGTQVKVLTGTGNVNIQPNYPAAARDFLQTFRRGLLGSSVM LDLDVLRGEPV
7124	2	382	LPFLTLIAAPFAHLLPPGHQDQSPCNHPCALSPGTGLGPISWAM ANSGLOQLGFLALGQWVGIIASTALPQWQSSYAGDASIQLR8 KVPVLESEWGGDSLGLPRDCGWSCLLHSAVRSEKGFWS
7125	166	1127	NCISEKRNYSFSMQKGRGRTSRIRRRKLCSSSESRGVNESHKSE FIELRKWLKARKPQDSNLAPACFPGTGRGLMSQTSLOEGQMIIS LPESCLLT/RDVTIRSYLGAYITKWKPPSPPLALCTFLVSEKH AGHRSLLEA\YLEILPKAYTCPVCLPEVVNLLPKSLKAKAEQ RAHVQEFASSRDFPSSSLQPLFAEAVDSIFSYSALLWAWCTVNT RAVYL/SPGSGNAFLQSRTPVQLAPYLDLNLHSPHVQVKAAPNE ETHSYEIRTTSRWRKHBEVFCYCPHDNQRLFLYEGFVSVHNPH ACVYVSRGWNQLCS
7126	1	733	CRDMAAFIVPSPARRCSSQKGLGHLPTQPLWAAWSPRGQERG SHSQAREPQRPGRWLLGSLQSSPGTLGQAGTASRRRGCMVQRWV QVATGRRVQVPKGAIGLALGETSPGASRCMSGGAGGCWALGWA PSPVLPWLLGPPPWLSIISDSGTQRPSPRRCPARSPWGPQC WRGRIASAEASST*TPGSGSRARSRRSPGSRSSASAPSPPT PTDACA*SCVARPAGSRSSRPAAA
7127	1311	277	GLPAMCST*KAGYYEETEGDCIPKDR*IEKRPFKEI*RRIPRI AKQKQI*S*NSQKIGASEIDRGRKEADCSAPAAARIGAVSVFR RSTQEARVSPRSNAKSANLRAVRAD*WEHFVLLFHTPBQFLAEC ICRST**K*WHQLC*PLSSL*TLKKRLL*VLFRY*WLKDCDV *FCQKIFATNFCNWQNLQ*EE*KPVEYSVEN*HIMNLLPM*L CQSSLRDQTIWTRM*RNYSMFRINMISSL*DGSIHIPKILHPY PALIFTTLTPINSCCQRLPLFAHQSIKTASSGSPMLACLRL LVKKRAPIHTRSPGCSV*CKHVLVKDNKNKNCVGSEV
7128	2	5228	GRVDLWTLILGRSALRELSQIEALNKHNRRLLEGLSYYKPPSP SSAEKVANKDVASPLKELGLRISKFLGLDEBQSVQLLQCYLQ DYRGTRDSVKTVLQDERQSQALILKIADYIYERTCILRCVHL LTYFQDERHPYRVYADCVDKLEKRLVSKYRQOFELYKTRAPT WETHGNLMTERRQVSRWVQCLREQSMLEIIFLYYAYFEMAPSD LLVLTKMFKEQGFGSRQTNRLHVDETMDPFVDRIGYFSALILVE GMDIESLHKCALDDRRRELHQFAQDGLICQDMDCMLTFGDIPH APVLLAWALLRHTLNPEBTSSVVRKIGGTAIQNLVFPQYLTRLQ SLASGGNDCTTSTACMCVYGLLSFVLTSLEHLTLGNQDDIIDA CEVLADPSLPFLFWGTEPTSGLGIIILDSVCGMTPHLLSPLLQL RALVSGKSTAKKVYSFLDRMSFYNELYKHKPHDVISHEDGTLWR RQTPKLLYPLGQGTNLRIPOGTVGQVMLDDRAYLVRWEYSYSSW TLFTCEIEMLLHVVSTADVIQHCQRVKPIIDLVHKVISTDLISA DCLLPITSRIYMLLQRLTTVISPPVDVIASCNCLTVLAARNPA KVNTDLRHTGFLPFVAHPVSSLSQMSAEGMNAGGYGNLLMNSE QPQGEYGVTTIAFLRLITTLVKQLGSTQSGLVPCVMFVLKEML

SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
			<p>PSYHKWRYNSHGVRQIGCLILELIHATILNLCHETDLHSSHTPS LQFLCICSLAYTEAGQTVINIMGIGVDTIDMVMAAQPRSDGAE QGQQLLIKTVKLAFSVTNNVIRLKPPSNVVSPLQALSQHGHA GNNLIIVLAKYIYHKHDPALPRLAIQLKRLATVAPMSVYACLG NDAAIRDAFLTRLQSK\IE\DMRIK\VMIL\EFLTVA\VETQP GLIELFLNLEVKDG\SDGSKFSLGMW\SLHAV/VWELDSQQ QDRYWCPLLHRAAIAFLHALWQDRRDSAMLVLRTPKFWENIT SPLFGTILSPSETSEPSILETCALIMKICILEIYYVVKGSGLDQ LKDTLKKFSIEKRFAYWSGYVKS LAVHVAETEGSSCTSLLEYQM LVSANRMLLIATTHADIMHLTDSVVRQLFLDVLDTGKALLIV PASVNCRLRIGSMKCTLLILLRQWKRLGSDVDEILGPILEILEG VLQADQQLMEKTKAKVFSAFITVLQMKEMKVS DIPQYSQVLVNL CETLQEEVIALFDQTRHSLALGSATEDKDSMETDDCSRSRRDQ RDGVCVLGLHLAKELCEVDEDCDSWLQVTRRLPILPTLLTLEV SLRMKQNLHFTTEATLHLTLTARTQGGATAVAGAGITQSICLPL LSVYQLSTNGTAQTPSARSKSLDAPSWPGVYRLSMSLMEQLLKT LRYNLFPEALDFVGVHQRITLQCLNAVRTVQSLACLEADHTVG FYLQLSNFMKEWHFHLPLQMRDIQVNLGYLQCACTSFHLSRKM QHYLQNKNGDGLPSAV\AQRV\QRPPSAASAAPSSSKQPAADT ASEQQALHTVQYGLLKI LSKTLAALRHFTPDVCQILLDQSLDLA EYNELFALSFTTPTFDSEVAPSFGTLLATVNVVALNMLGELDKK EPLTQAVGLSTQAEGRITLKSLLMFTMENCFYLLISQAMRYLRD PAVHPRDKQRMKQELSSSLSTLLSSLSRYFRGAPSSPATGVLP SPQCKSTSLSKASPESQEPLIQLVQAFVRHMQR</p>
7129	1	1054	<p>FRFRFRFRRLH*AGPASSAGGSPGEASGTMGELPPNINIKPR WDQSTFIGRANHFVTVDPRNILLTNEQLESARKIVHDYRQGI PPGLTENELWRAKYIYDSAFHPDTGEKMILIGRMSAQVPMNMTI TGCMMTFYRTTPAVLFWQWINSFNNAVNYNTRSGDAPLTVNEL GTAYVSATTGAVATAGLNLTKHVSPLIGRFVPPAAVAANAANI NIPILMRORELKVGIPVTDENGNRGLESANAAKQAITQVVVSRL MAAPGMAIPPFIMNTLEKKAFLKRFPPWMSAPIQVGLVGPCLVFA TPLCCALFPQSSMSVTSLEARLQAKIQESHPELRRVYFNKGL</p>
7130	2	780	<p>HEVPSLQTSDDLPGSVQRCSSVVVSQPNKENWCQDHLNLSLRGK ISAKSQPYHRSQSSSVLKNKMSDINYPDVGKQQLSLHRSS RCESHQDILLPDADSHQGGTEKLSDLTLQDSQKVVVVNRNPLN AQIATQNYFSNFKETDGEDDYVEIKSEDESELELSHNRKRS DSKFVDADPSDNVCSGNTLHSLNSPRTPKPVNSKLGSLPYLTP YNDSDKLDNDYLWRGSPSPNQNTIVQSLREKFCCLSSSSFA</p>
7131	805	573	<p>AAAEHIEVVKFLIEACKVNPFAKDRWGNIPLODAVQFNHLEV KLQDYQDSYTLSETQARAAARALSKENLESMT</p>
7132	1420	1087	<p>IDMLLSGALVSGPYTLITTAVSADLGHKSLKGNHAHALSTVTA IIDGTGSGVGAALGPLLAGLLSPSCWSNVFYMLMFADACALLFLI RLIHKELSCPGSATGDQVPFKEQ</p>
7133	2	3648	<p>QQIPGLLPAHGESGDALRKPRLOKPI TGHLLDDFFTLPSLEKF EBELLELHVQDHFQEGCGPLDGGALEILERRLRVGVHNGLGFVQ RPQVVVLVPEMDVALTRSASF SRKVVSSTSSGSQALVLRSL RLPEMVGHAPFAVIFQLEYVFSSPAGVDGNAASVTSLSNLACMH MVRWAVWNPLLEADSGRVTLPLQGGI QPNPSHCLVYKVPASMS SEEVKQVESGTLRFQFSLGSEEHLDAPTEPVSGPKVERRPSRKP PTSPSSPPAPVPRVLAAPQNSPVGPGLSISQLAASPRSPTOHCL ARPTSQPLPHGSQASPAQAQEFPLEAGISHLEADLSQTSVLVETS IAEQLOELPFTPLHAPIVVGTTQTRSSAGQPSRASMVLQSSGFP EILDANKQPAKAVSATEPVTFNPKKEESDCLQSNEMVLQFLAFS RVAQDCRGTSWPKTVYFTFQFYRPPPATTPRLQLVQLDEAGQPS SGALTHILVPVSRDGTFDAGSPGFQLRYMVGFGFLKPGERRCFA RYLAVQTLQIDVWDGDSLLIGSAVQMKHLLRQGRPAVOASHE</p>

SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
			LEVVA TEYEQDNM VVSGDMLGFGVRVKPIGVH SVVKGRILHLTLAN VGHPC EQKVRGCS TLPPSRSRVISNDGASRFSGGSLTTGSSRR KHVVQAQKLADVDSELAAMLLTHARQKGKGPQDVSRRES DATRRRK LRRMRSVRLQKAGGDLGRRGTSVLAQQSVRTOHLRDLQVIAAYR ERTKAESIASL LSLAITTEHTLHATLGVAEFPFVLRNPHNTQH TVTVEIDNPELSVIVDSQENRDFKGAAGLHTFVEEDMFHLRGSL APQLYLPHETAHVPPKQSPSAGQLAMVQASPGLSNEKGMDAV SPWKSSAVPTKHAKVLFASGGKPIAVLCLTVELQPHVVDQVFR FYHPELSFLKKAIRLPPWHTFFGAPVGM LGEDPPVHVRCSDPNV ICETQNVGPGEPDIFLKVASGSPSEIKDFFVVIYSRWLATPT QTWQVYLHSLQRVDVSCVAGQLTRLSLVLRGTQTVRKVRAPTSH PQELKTDPKGVFVLPRGVQDLHVGVRLRAGSRFVHLNLVDVD CHQLVASNLVCLCCRQPLISKAFEIMLAAGEGKGVNKRITTYNP YPSRRTFHLHSDHPELLRFREDSFQVGGGETTYTIGLQFAPSQRV GEEELIYINDHEDKNBEAFCKRVIIYQ
7134	2115	1111	GGEGFSYPHVGSLSGTPLDPHYVLEVHYDNPTYPEGLIDNSG LRLFTYMDIRKYDAGVIEAGLVSLFHTIPPQMPPEFQSEGHCTL RCLERALEAKPSGIHVPAVLLHAHLAGRGIRLRHFRKGKEMKL LAYDDDFDNEFQEFQYLKEEQTLPGDNLITECRYN TKDRAEMT WGGLSTRSEMCLSYLLYYPRINLTRCASTPDIMEQLQFIGVKEI YRPVTTWPFIIKSPKQYKNSPMDAMNPKFWTKKEGLSFNKLVL SLPVNVRC SKTDNAEWSIQGMTALPPDIERPYKAEPLVCGTSSS SSLHRDFSINLLVCLLLLSCTLS TKSL
7135	2	2072	FVPRVTPRSLSLQGGKGESVGSITQPLPSSYLIIPRAASESDGRC WLDAL ELALRCSLLRLGTCCKPGRDGEPTGSPDASPSL CGLPA SATVHPDQDLFPLNGSSLENDAPS DKSERENPEESDTETQDHSR KTESGSDQSETPGAPVRRGTTTVVEQVQEEELGELGEASQVETVSE ENKSLMWTL LKQLRPGMDLSRVVLPTFVLEPRSF LNKLSVYYH ADLLSRAAVEBDAYS RMKLVLRWYLSGFYKPKGKIKKPYNPILG BTFRCWFHPQTDSTFTYIAEQVSHHPVVSAPHVSNRKDGFCIS GSITAKSRFYGNLSALLDGKATLTF LNRAEDYTLTMPYAHCKG ILYGTMTLELGGKVTIECAKNNFQAQLEFKLPFFGGSTSINQI SGKITSGEEVLASLSCHWDRDVFKEEGSGSSALFWTPSGEVRR QRLRQHTVPLEEQTELESERLWQHVTRAISKGDQHRATQKFPAL REARQRARERQESLMPWPKQLPHLDPIYQEWHYRYEDHSWPDP LKDIAQPBQDGLLRTLQRAVARQITFLGSPGPRHERSGPDQRL RKASDQPSGHSQATESSGSTPESCPLSDDEEQDGFVPGGESPC PRCRKEARRLOALHEAILLSIREAQBLHRHLSAMLSSTARAQA PTPGLLQSPRSWFLLCVFLACQLFINHILK
7136	2	418	DFVPSFRPSCGNTSQT VVLLRAATLEKEVAGLREKIHHLDDMLK SQORKVRQMIEQLQNSKAVIQSKDATIQELKSKLAYLEAENLEM HDRMEHLIEKQISHGNFSTQARAKTENPGSIRISKPPSPKMPV IRVVET
7137	2	466	WASGMSTVPGGSRHSLGIQVRGGWGVGTGGEESLTVPVADTWQA GSFKVATQERNPQRAQMRLRRQKGVVPPFGDFTLTELQRLDSAI PDDLGN TNKRSKEVRVLQEMQLLQVAAMNYRLRPLEKFVYTYFT RMEQLSDKESYKLSQLEPENP
7138	2	466	WASGMSTVPGGSRHSLGIQVRGGWGVGTGGEESLTVPVADTWQA GSFKVATQERNPQRAQMRLRRQKGVVPPFGDFTLTELQRLDSAI PDDLGN TNKRSKEVRVLQEMQLLQVAAMNYRLRPLEKFVYTYFT RMEQLSDKESYKLSQLEPENP
7139	1	357	SLRNSARGLKMAASAARGAAALRRSINQPVAFVRRIPWTAASSQ LKEHFAQFGHVRRCILPPDKETGPHRGGLWVQFSSEGLRNALQ QENHIIDGVKVQVHTRRPKLPQTSDDDEKKDF
7140	1401	1957	RASSLQVLKAWGGLIPSSFPQQHTGQYALEELFDLKVYDCFCFSF NMNVSLKQLRPSQWPWPRGKCRKTPGWREARPKAQDLRGDLGKT

SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
			QAGPAEARTRGPPRLPAATGCPPLPGLLGGISVDIDPTGLQSQ WTPKGQDPPLMFSEYQKSLLEQVHLGLDQKLKRYVVGELIWNF ADFMNQCG
7141	124	1073	LDSSRSCWLDMEEDVRFIVDETLDFGGLSPSDSREEEDITVL VTPKPLRRGLSHRSDPNAVAPAPQGVRLSLGPLSPEKLEILD EANRLAAQLEQCALQDRESAGEGLGPRRVKPSRRRTFFVLKDS VRDLLPTVNSLTRSTPS/LKQPDASTPE**EGVSQGSPPGYIWK EALQHEBQVTHLQSVPTQKPSIFSS\SRSTPPVRGRAGPSGRA AASEETRAAKLRGAAKSSCOLPIPSAIPRPASRMPLTSRSVPP GRGALPPDSLSTRKGLPRPSTAGHRVRESGHKVPVSQRNLNLPVM GATRSNLQPP
7142	658	839	LIFMLHMEKMLSSVTLHIRAFLYWICKPTSCLIFQNVNLL KK*SRVGVVVVMCRT/YSSDLQGVVIRPWLGLGSQDAAHDLDT LKKNKVTHILNVAYGVENAFSLDPTYKSIISILDLPETNLSYFP ECFEFIEAKRKDGVLVHCNA
7143	3	773	SLEMSSDGEPLSRMDESDSISSTIMDVSTISSGRSTPAMMNQ GSTTSSSKNIAYNCCWDQCOACFNSSPDADHRSIHVDGQGG VFVCLWKGCCKVYNTPTSQSWLQREMLTHSGDKPKFCVVGGCNA SFASQGGIARHVPTHFSQQNSSKVSSQPKAKRESPSKAGMKNRR KLKNKRRSLARPHDFDAQTLDAIRHRAICFNLSAHIESLGKG HSVVFHSTVSILLFFQIKYKTLQKNISTIISKSLKI
7144	1	988	FRVNMDDGGFSPAHSKAEESAGMEARFLGLPDAAGSSGPTPAR RCPAPRPAGVSVIRDEVEKYNRNGVNALQLDPALNRLFTAGRD SIIIRISVNVQHKQDPYIASMEHHTDWNVDIVLCCNGKTLISASS DTTVKVMNAHKGFCMSTLRTHKDYVKALAYAKDKELVASAGLDR QIFLWDVNTLTALTASNNVTTSLSGNKDSIYSLAMNQLGTII VSGSTBKVLRVWDPRTCAKMLKLGHTDNVXALLNDRDGTQCLS GSSDGTIRLWSLGQQRCIATYRVHDEGVWALQVNDAPTHVYSGG RDRKIYCTDLRNPDIRVLICE

TRADOC:1416260.1(%CSK011.DOC)

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of SEQ ID NO:1-1786 and 3573-5358, a mature protein coding portion of SEQ ID NO:1-1786 and 3573-5358, an active domain of SEQ ID NO:1-1786 and 3573-5358, and complementary sequences thereof.
2. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide hybridizes to the polynucleotide of claim 1 under stringent hybridization conditions.
3. An isolated polynucleotide encoding a polypeptide with biological activity, wherein said polynucleotide has greater than about 90% sequence identity with the polynucleotide of claim 1.
4. The polynucleotide of claim 1 wherein said polynucleotide is DNA.
5. An isolated polynucleotide of claim 1 wherein said polynucleotide comprises the complementary sequences.
6. A vector comprising the polynucleotide of claim 1.
7. An expression vector comprising the polynucleotide of claim 1.
8. A host cell genetically engineered to comprise the polynucleotide of claim 1.
9. A host cell genetically engineered to comprise the polynucleotide of claim 1 operatively associated with a regulatory sequence that modulates expression of the polynucleotide in the host cell.
10. An isolated polypeptide, wherein the polypeptide is selected from the group consisting of:

- (a) a polypeptide encoded by any one of the polynucleotides of claim 1; and
 - (b) a polypeptide encoded by a polynucleotide hybridizing under stringent conditions with any one of SEQ ID NO:1-1786 and 3573-5358.
11. A composition comprising the polypeptide of claim 10 and a carrier.
12. An antibody directed against the polypeptide of claim 10.
13. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- a) contacting the sample with a compound that binds to and forms a complex with the polynucleotide of claim 1 for a period sufficient to form the complex; and
 - b) detecting the complex, so that if a complex is detected, the polynucleotide of claim 1 is detected.
14. A method for detecting the polynucleotide of claim 1 in a sample, comprising:
- a) contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to the polynucleotide of claim 1 under such conditions;
 - b) amplifying a product comprising at least a portion of the polynucleotide of claim 1; and
 - c) detecting said product and thereby the polynucleotide of claim 1 in the sample.
15. The method of claim 14, wherein the polynucleotide is an RNA molecule and the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.
16. A method for detecting the polypeptide of claim 10 in a sample, comprising:

a) contacting the sample with a compound that binds to and forms a complex with the polypeptide under conditions and for a period sufficient to form the complex; and

b) detecting formation of the complex, so that if a complex formation is detected, the polypeptide of claim 10 is detected.

17. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:

a) contacting the compound with the polypeptide of claim 10 under conditions sufficient to form a polypeptide/compound complex; and

b) detecting the complex, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.

18. A method for identifying a compound that binds to the polypeptide of claim 10, comprising:

a) contacting the compound with the polypeptide of claim 10, in a cell, under conditions sufficient to form a polypeptide/compound complex, wherein the complex drives expression of a reporter gene sequence in the cell; and

b) detecting the complex by detecting reporter gene sequence expression, so that if the polypeptide/compound complex is detected, a compound that binds to the polypeptide of claim 10 is identified.

19. A method of producing the polypeptide of claim 10, comprising,

a) culturing a host cell comprising a polynucleotide sequence selected from the group consisting of a polynucleotide sequence of SEQ ID NO:1-1786 and 3573-5358, a mature protein coding portion of SEQ ID NO:1-1786 and 3573-5358, an active domain of SEQ ID NO:1-1786 and 3573-5358, complementary sequences thereof and a polynucleotide sequence hybridizing under stringent conditions to SEQ ID NO:1-1786 and 3573-5358, under conditions sufficient to express the polypeptide in said cell; and

b) isolating the polypeptide from the cell culture or cells of step (a).

20. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of any one of the polypeptides SEQ ID NO:1787 -3572 and 5359-7144, the mature protein portion thereof, or the active domain thereof.
21. The polypeptide of claim 20 wherein the polypeptide is provided on a polypeptide array.
22. A collection of polynucleotides, wherein the collection comprising the sequence information of at least one of SEQ ID NO:1-1786 and 3573-5358.
23. The collection of claim 22, wherein the collection is provided on a nucleic acid array.
24. The collection of claim 23, wherein the array detects full-matches to any one of the polynucleotides in the collection.
25. The collection of claim 23, wherein the array detects mismatches to any one of the polynucleotides in the collection.
26. The collection of claim 22, wherein the collection is provided in a computer-readable format.
27. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.
28. A method of treatment comprising administering to a mammalian subject in need thereof a therapeutic amount of a composition comprising an antibody that specifically binds to a polypeptide of claim 10 or 20 and a pharmaceutically acceptable carrier.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/34263

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07H 21/04; C12N 15/11, 15/63, 15/70, 15/82, 15/85; C07K 14/00

US CL : 536/23.1; 435/320.1, 455, 468, 530/300, 350

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.1; 435/320.1, 455, 468, 530/300, 350

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
MEDLINE, EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WAJIMA et al. The cDNA cloning and transient expression of an ovary-specific 17beta-hydroxysteroid dehydrogenase of chickens. Gene. 1999, Vol.233, pages 75-82	1-11, 13-16, and 19-26
A	US 5,175,095 A (MARTINEAU et al) 29 December 1992 (29.12.1992), see especially columns 3-18.	1-11, 13-16, and 19-26
A	Database PubMed, ID No. 2393392, FREUDENSTEIN et al. mRNA of bovine tissue inhibitor of metalloproteinase: sequence and expression in bovine ovarian tissue. Biochem. Biophys. Res. Commun. August 1990. Vol.171. No. 1. pages 250-256, see Abstract.	1-11, 13-16, and 19-26
A,P	Database PubMed, ID No. 10919256, HENNEBOLD et al. Ovary-selective genes I: the generation and characterization of an ovary-selective complementary deoxyribonucleic acid library. Endocrinology. August 2000. Vol.141. No.8. pages 2725-2734, see Abstract.	1-11, 13-16, and 19-26
A	Database PubMed, ID No. 2760883, BEIL et al. Synthesis of polypeptides by the cervix of the baboon (Papio anubis). J. Reprod. Fertil. July 1989. Vol.86. No.2. pages 535-544, see Abstract.	1-11, 13-16, and 19-26
A,P	Database PubMed, ID No. 10830289, HINSHELWOOD et al. A 278 bp region just upstream of the human CYP19 (aromatase) gene mediates ovary-specific expression in transgenic mice. Endocrinology. June 2000. Vol.141. No.6. pages 2050-2053, see Abstract.	1-11, 13-16, and 19-26

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/34263

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
This includes 4 invention Groups and 3572 sequence species

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

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The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/34263

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid. Group I, claims 1-11, 13-16, and 19-26, drawn to nucleic acid molecules, vector molecules and host cells containing said nucleic acids, polypeptides, methods of making said polypeptides and method of detection using said nucleic acids and polypeptides. Group II, claim 12 and 28, drawn to antibodies and method of treatment using composition comprising said antibodies. Group III, claims 17-18, drawn to methods of identifying a binding partner to a polypeptides. Group IV, claim 27, drawn to method of treatment using composition comprising polypeptides.

The inventions listed as Groups I-IV do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I encompasses nucleic acids, polypeptides expressed thereby, vectors and host cells containing same, respectively, and methods of making as well as the first method of use of this subject matter. Groups II-V all are directed to different special technical features as summarized as follows: Group II is directed to an antibody and method of treatment using same, which antibody undergoes recognition and binding reactions wherein what is bound is different from what is bound by the compositions of Group I. For example, the polypeptides of Group I do not bind the polypeptides of Group I as the antibody of Group II does. Identification of binding partner and treatment are clearly different special technical features from detection. Group III is directed to the identification of a binding partner of a polypeptide, which is not identified in any of the other Groups and thus clearly contains its own special technical feature. Group IV is directed to treatment, which is a clearly different methods than the methods in the other Groups. Thus, in summary, each of Groups I-IV are directed to different special technical features and thus support this lack of unity.

Additionally, each of the claims is directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for more than one species to be searched, the appropriate additional search fees must be paid. The species are as follows: The claims include a series of polynucleotides and the polypeptides encoded thereby as represented by the sequences of SEQ ID Nos: 1-1786, and 3573-5358. Each of these polynucleotide sequences encodes a separate polypeptide and thus represent a separate gene. Therefore, each of these genes defines its own special technical feature. In summary, one species is a gene represented by one polynucleotide sequence and one polypeptide sequence encoded thereby.

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